

STREET CLOSURE

STREET NAME	HST ALIGNMENT STA	LOCAL STANDARD
ORANGE AVE	2748+00.00	KINGS COUNTY
ROAD 16	2916+00.00	TULARE COUNTY
AVENUE 144	2995+00.00	TULARE COUNTY
AVENUE 136	3056+50.00	TULARE COUNTY

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3
ROADWAY/GRADE SEPARATION
KEY MAP

CONTRACT NO. HSR 06-0003
DRAWING NO. CB0080
SCALE AS SHOWN
SHEET NO. 1 OF 43

c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms72554\FB-CT-1271-C3.dgn 12/26/2013 4:36:12 PM eron.sudhausen

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°52'29"E	312.76'
2	N65°20'19"E	525.76'

CURVE DATA				
NO.	R	Δ	T	L
(1)	300.00'	24°47'13"	65.92'	129.78'

REV	DATE	BY	CHK	APP	DESCRIPTION

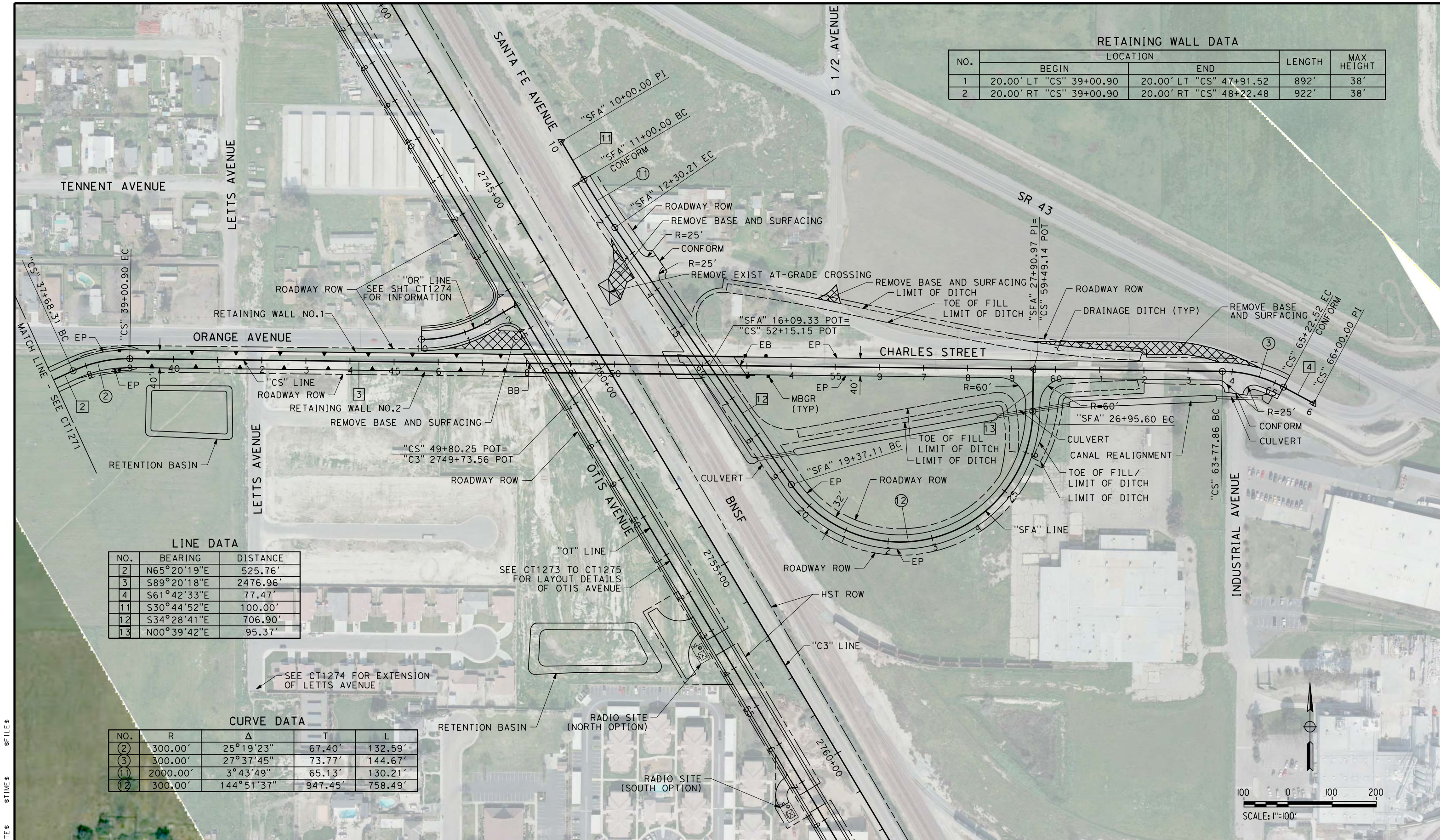
DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION LAYOUT CHARLES ST

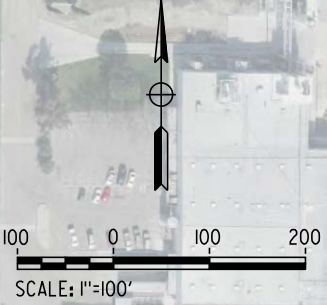
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1271
SCALE AS SHOWN
SHEET NO. 2 OF 43



NO.	LOCATION		LENGTH	MAX HEIGHT
	BEGIN	END		
1	20.00' LT "CS" 39+00.90	20.00' LT "CS" 47+91.52	892'	38'
2	20.00' RT "CS" 39+00.90	20.00' RT "CS" 48+22.48	922'	38'

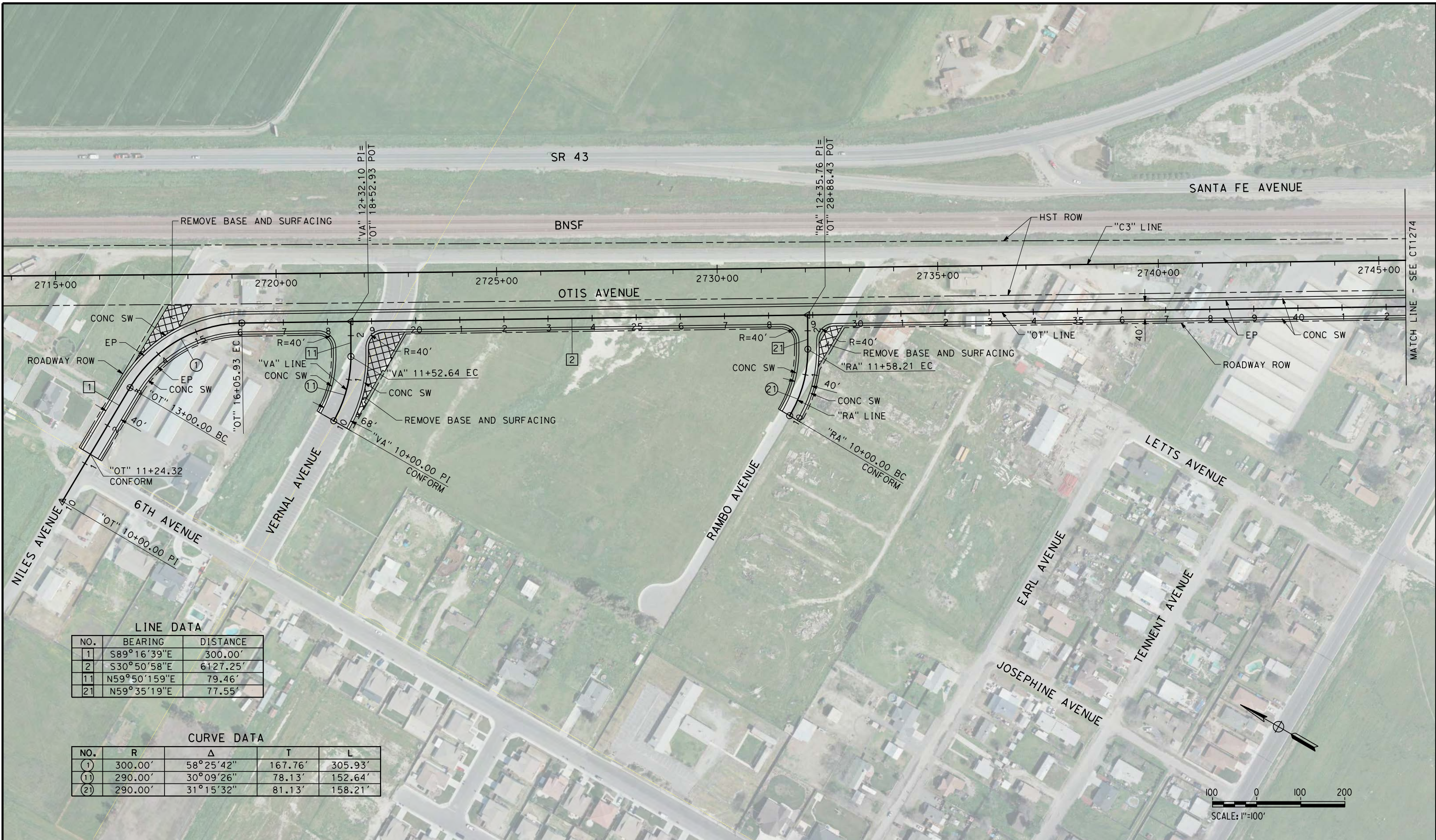
LINE DATA		
NO.	BEARING	DISTANCE
2	N65°20'19"E	525.76'
3	S89°20'18"E	2476.96'
4	S61°42'33"E	77.47'
11	S30°44'52"E	100.00'
12	S34°28'41"E	706.90'
13	N00°39'42"E	95.37'

CURVE DATA				
NO.	R	Δ	T	L
2	300.00'	25°19'23"	67.40'	132.59'
3	300.00'	27°37'45"	73.77'	144.67'
11	2000.00'	3°43'49"	65.13'	130.21'
12	300.00'	144°51'37"	947.45'	758.49'



<table><tr><th>REV</th><th>DATE</th><th>BY</th><th>CHK</th><th>APP</th><th>DESCRIPTION</th></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>	REV	DATE	BY	CHK	APP	DESCRIPTION																									<table><tr><td>DESIGNED BY A. CANNON</td></tr><tr><td>DRAWN BY E. SUDHAUSEN</td></tr><tr><td>CHECKED BY S. BROWN</td></tr><tr><td>IN CHARGE R. COFFIN</td></tr><tr><td>DATE 12/31/13</td></tr></table>	DESIGNED BY A. CANNON	DRAWN BY E. SUDHAUSEN	CHECKED BY S. BROWN	IN CHARGE R. COFFIN	DATE 12/31/13	<table><tr><td>RECORD SET 15% DESIGN SUBMISSION</td></tr><tr><td>NOT FOR CONSTRUCTION</td></tr></table>	RECORD SET 15% DESIGN SUBMISSION	NOT FOR CONSTRUCTION		<table><tr><td colspan="3">CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD</td></tr><tr><td colspan="3">CORCORAN SUBSECTION ALIGNMENT C3</td></tr><tr><td colspan="3">GRADE SEPARATION LAYOUT CHARLES ST</td></tr></table>	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD			CORCORAN SUBSECTION ALIGNMENT C3			GRADE SEPARATION LAYOUT CHARLES ST			<table><tr><td>CONTRACT NO. HSR 06-0003</td></tr><tr><td>DRAWING NO. CT1272</td></tr><tr><td>SCALE AS SHOWN</td></tr><tr><td>SHEET NO. 3 OF 43</td></tr></table>	CONTRACT NO. HSR 06-0003	DRAWING NO. CT1272	SCALE AS SHOWN	SHEET NO. 3 OF 43
REV	DATE	BY	CHK	APP	DESCRIPTION																																																		
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LINE DATA

NO.	BEARING	DISTANCE
1	S89°16'39"E	300.00'
2	S30°50'58"E	6127.25'
11	N59°50'159"E	79.46'
21	N59°35'19"E	77.55'

CURVE DATA

NO.	R	Δ	T	L
1	300.00'	58°25'42"	167.76'	305.93'
11	290.00'	30°09'26"	78.13'	152.64'
21	290.00'	31°15'32"	81.13'	158.21'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
OTIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1273
SCALE AS SHOWN
SHEET NO. 4 OF 43

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LINE DATA		
NO.	BEARING	DISTANCE
2	S30°50'58"E	6127.25'
31	N59°35'19"E	76.84'
41	S89°27'27"E	37.55'
42	N59°35'19"E	77.08'
51	S00°00'00"E	600.00'

CURVE DATA				
NO.	R	Δ	T	L
(3)	290.00'	30°55'32"	80.22'	156.64'
(4)	290.00'	30°57'14"	80.30'	154.77'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
OTIS AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1274
SCALE
AS SHOWN
SHEET NO.
5 OF 43

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LINE DATA

NO.	BEARING	DISTANCE
2	S30°50'58"E	6127.25'
3	S00°32'51"W	201.34'
61	N59°09'02"E	75.48'

CURVE DATA

NO.	R	Δ	T	L
2	300.00'	31°23'48"	84.32'	162.34'
61	290.00'	31°26'30"	81.63'	159.14'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

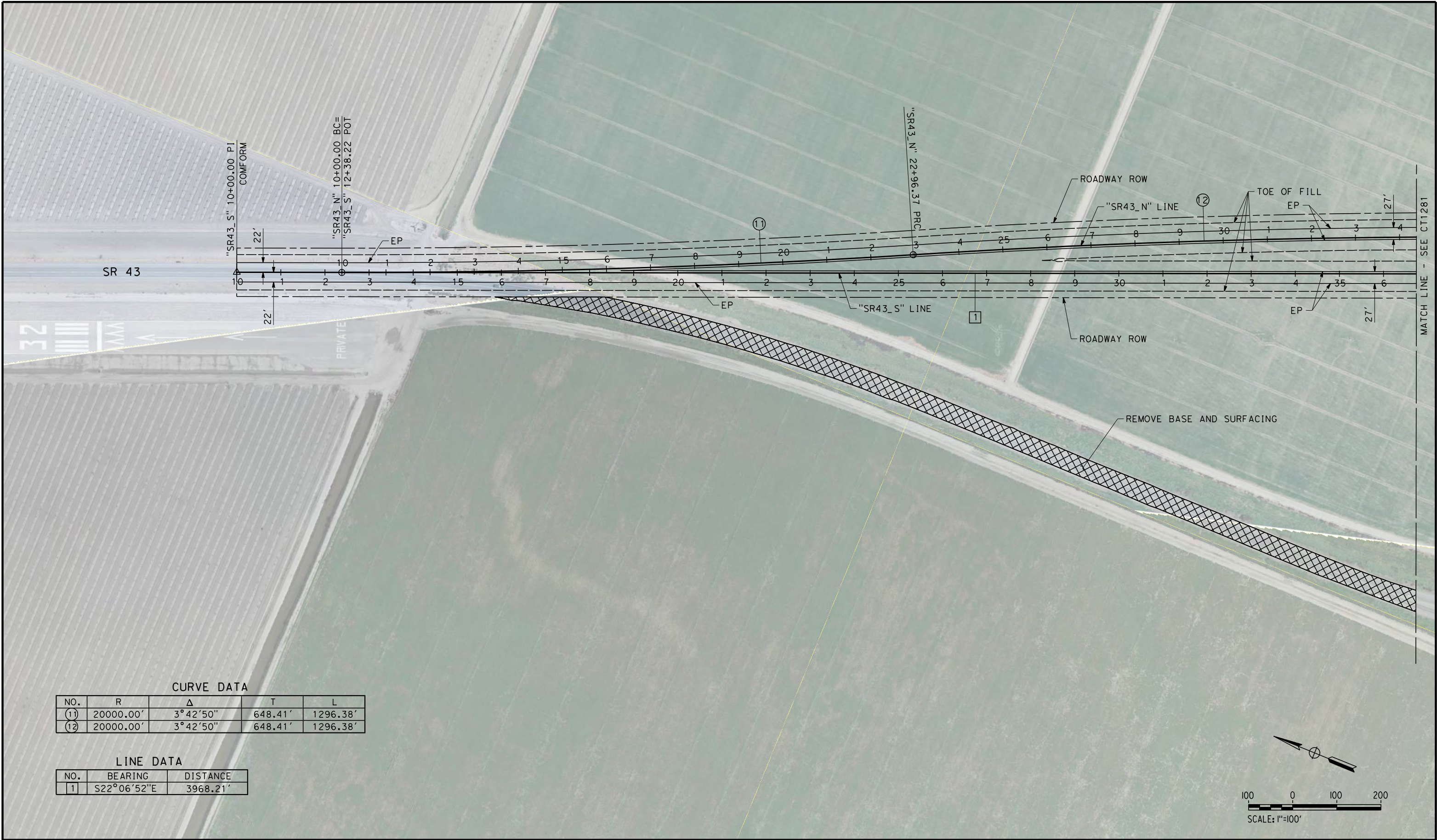


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
OTIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1275
SCALE AS SHOWN
SHEET NO. 6 OF 43

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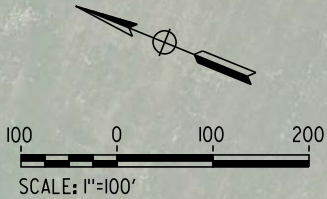


CURVE DATA

NO.	R	Δ	T	L
(1)	20000.00'	3°42'50"	648.41'	1296.38'
(2)	20000.00'	3°42'50"	648.41'	1296.38'

LINE DATA

NO.	BEARING	DISTANCE
1	S22°06'52"E	3968.21'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

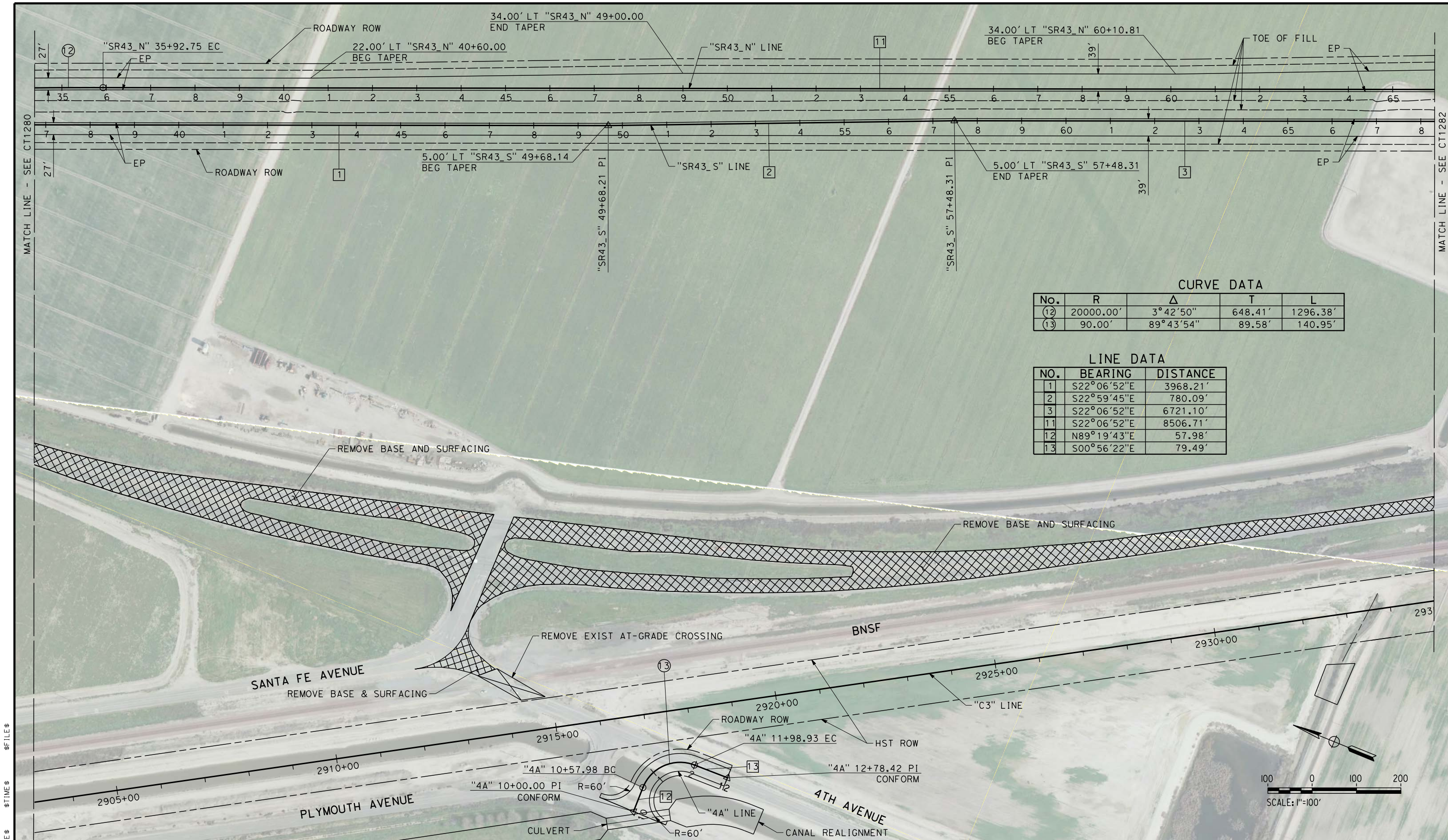
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1280
SCALE AS SHOWN
SHEET NO. 7 OF 43

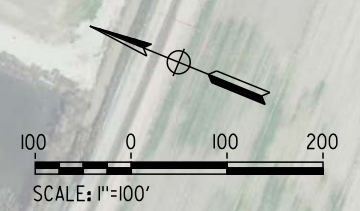


CURVE DATA

No.	R	Δ	T	L
(12)	20000.00'	3°42'50"	648.41'	1296.38'
(13)	90.00'	89°43'54"	89.58'	140.95'

LINE DATA

NO.	BEARING	DISTANCE
1	S22°06'52"E	3968.21'
2	S22°59'45"E	780.09'
3	S22°06'52"E	6721.10'
11	S22°06'52"E	8506.71'
12	N89°19'43"E	57.98'
13	S00°56'22"E	79.49'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

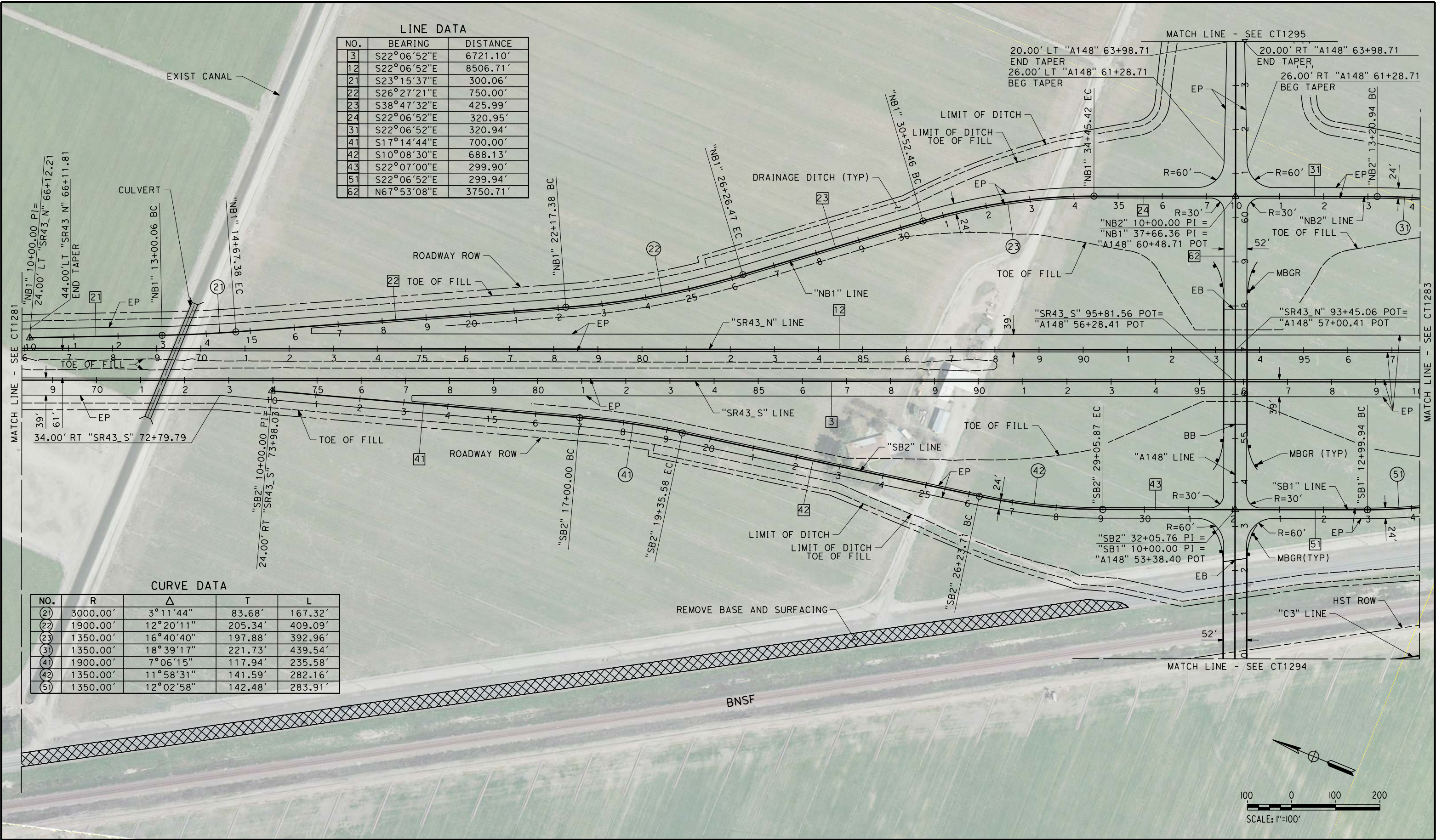
**NOT FOR
CONSTRUCTION**

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1281
SCALE AS SHOWN
SHEET NO. 8 OF 43

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LINE DATA

NO.	BEARING	DISTANCE
3	S22°06'52"E	6721.10'
12	S22°06'52"E	8506.71'
21	S23°15'37"E	300.06'
22	S26°27'21"E	750.00'
23	S38°47'32"E	425.99'
24	S22°06'52"E	320.95'
31	S22°06'52"E	320.94'
41	S17°14'44"E	700.00'
42	S10°08'30"E	688.13'
43	S22°07'00"E	299.90'
51	S22°06'52"E	299.94'
62	N67°53'08"E	3750.71'

CURVE DATA

NO.	R	Δ	T	L
(2)	3000.00'	3°11'44"	83.68'	167.32'
(2)	1900.00'	12°20'11"	205.34'	409.09'
(23)	1350.00'	16°40'40"	197.88'	392.96'
(31)	1350.00'	18°39'17"	221.73'	439.54'
(41)	1900.00'	7°06'15"	117.94'	235.58'
(42)	1350.00'	11°58'31"	141.59'	282.16'
(51)	1350.00'	12°02'58"	142.48'	283.91'

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION

NOT FOR
CONSTRUCTION

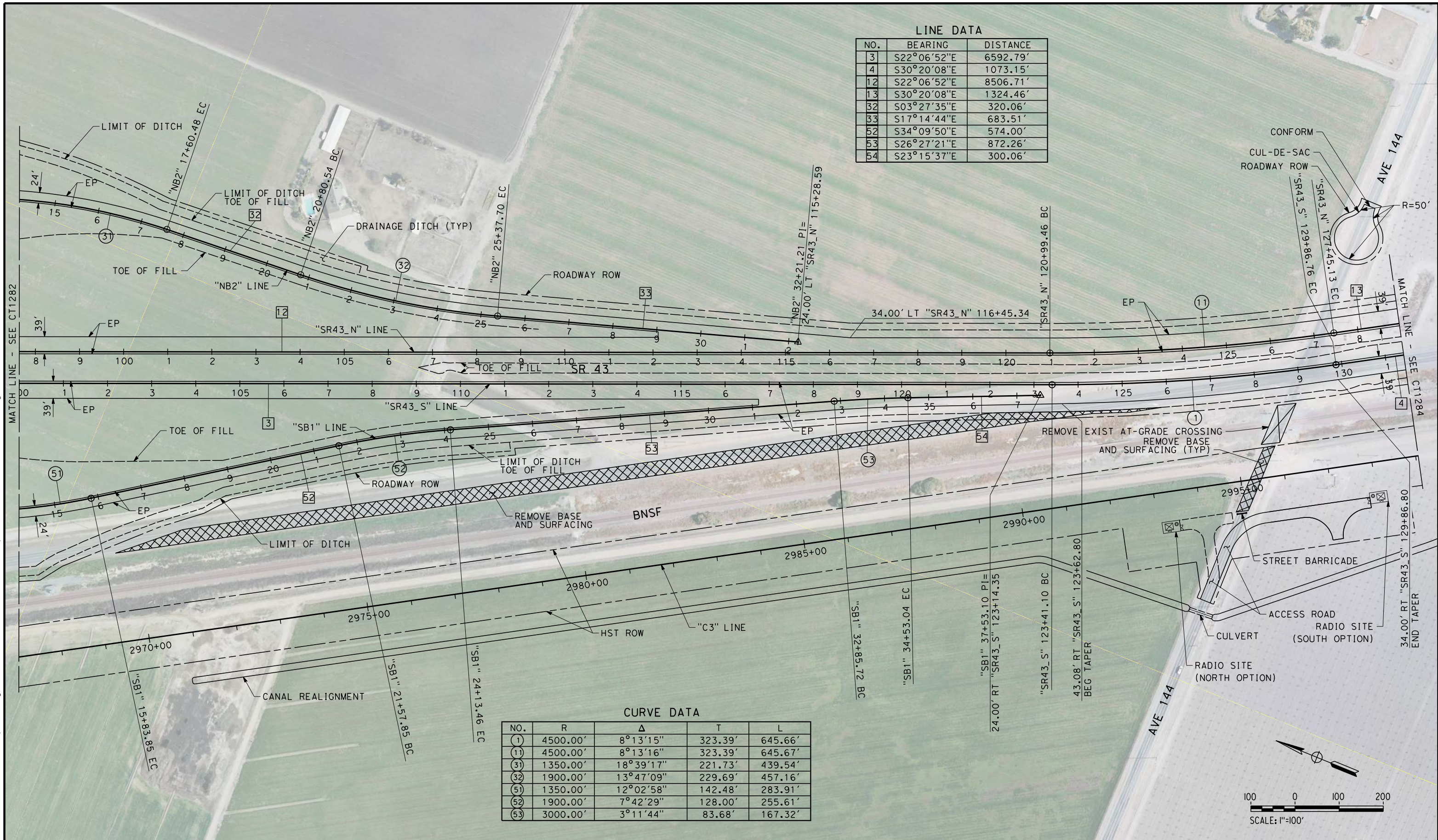


CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
STATE ROUTE 43

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1282
SCALE
AS SHOWN
SHEET NO.
9 OF 43

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LINE DATA		
NO.	BEARING	DISTANCE
3	S22°06'52"E	6592.79'
4	S30°20'08"E	1073.15'
12	S22°06'52"E	8506.71'
13	S30°20'08"E	1324.46'
32	S03°27'35"E	320.06'
33	S17°14'44"E	683.51'
52	S34°09'50"E	574.00'
53	S26°27'21"E	872.26'
54	S23°15'37"E	300.06'

CURVE DATA				
NO.	R	Δ	T	L
(1)	4500.00'	8°13'15"	323.39'	645.66'
(11)	4500.00'	8°13'16"	323.39'	645.67'
(31)	1350.00'	18°39'17"	221.73'	439.54'
(32)	1900.00'	13°47'09"	229.69'	457.16'
(51)	1350.00'	12°02'58"	142.48'	283.91'
(52)	1900.00'	7°42'29"	128.00'	255.61'
(53)	3000.00'	3°11'44"	83.68'	167.32'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

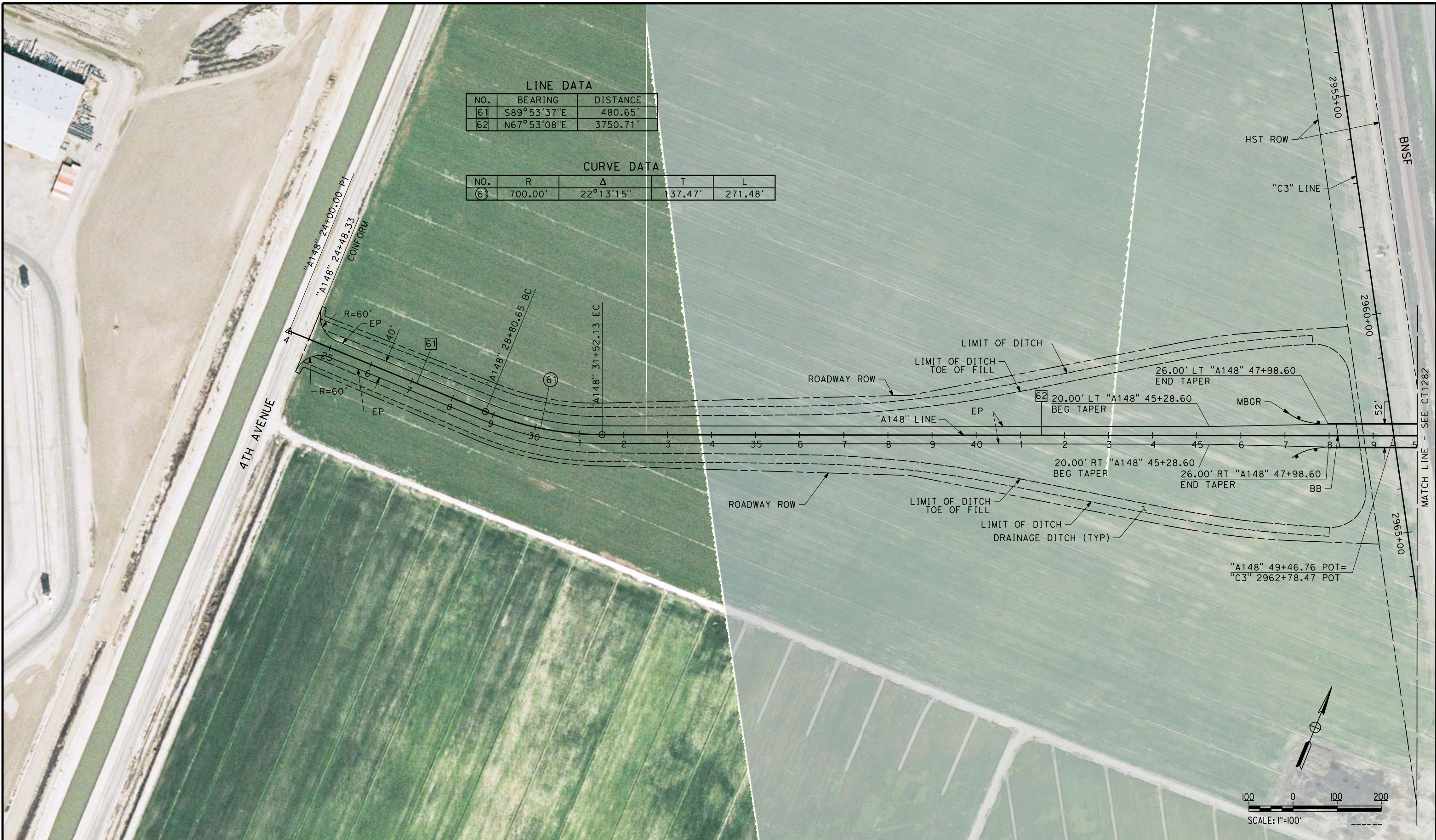
**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD		CONTRACT NO. HSR 06-0003
CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION LAYOUT STATE ROUTE 43		DRAWING NO. CT1283
SCALE AS SHOWN		SHEET NO. 10 OF 43

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. CANNON

DRAWN BY
E. SUDHAUSEN

CHECKED BY
S. BROWN

IN CHARGE
R. COFFIN

DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
AVE 148

CONTRACT NO.
HSR 06-0003

DRAWING NO.
CT1294

SCALE
AS SHOWN

SHEET NO.
12 OF 43

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LINE DATA

NO.	BEARING	DISTANCE
62	N67°53'08"E	3750.71'
63	S89°45'51"E	890.77'
71	S00°14'09"W	3817.83'

CURVE DATA

NO.	R	Δ	T	L
(62)	700.00'	22°21'01"	138.29'	273.06'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

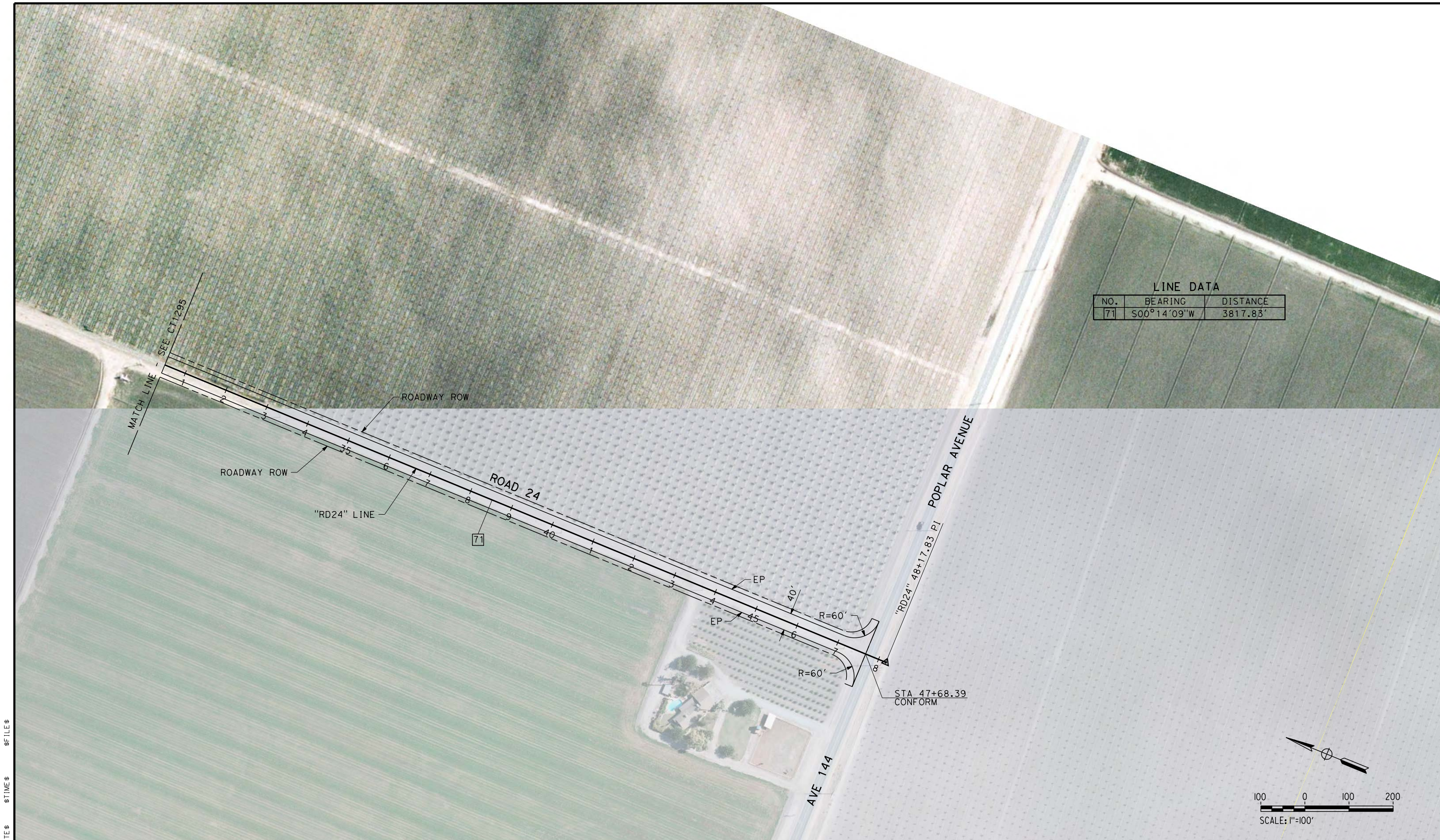
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
AVE 148 & RD 24

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1295
SCALE AS SHOWN
SHEET NO. 13 OF 43



LINE DATA		
NO.	BEARING	DISTANCE
71	S00°14'09"W	3817.83'

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

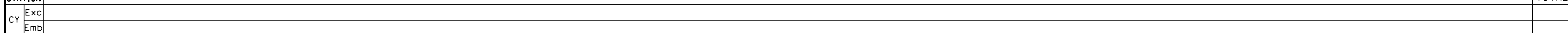
RECORD SET 15% DESIGN SUBMISSION
NOT FOR CONSTRUCTION

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION LAYOUT
RD 24

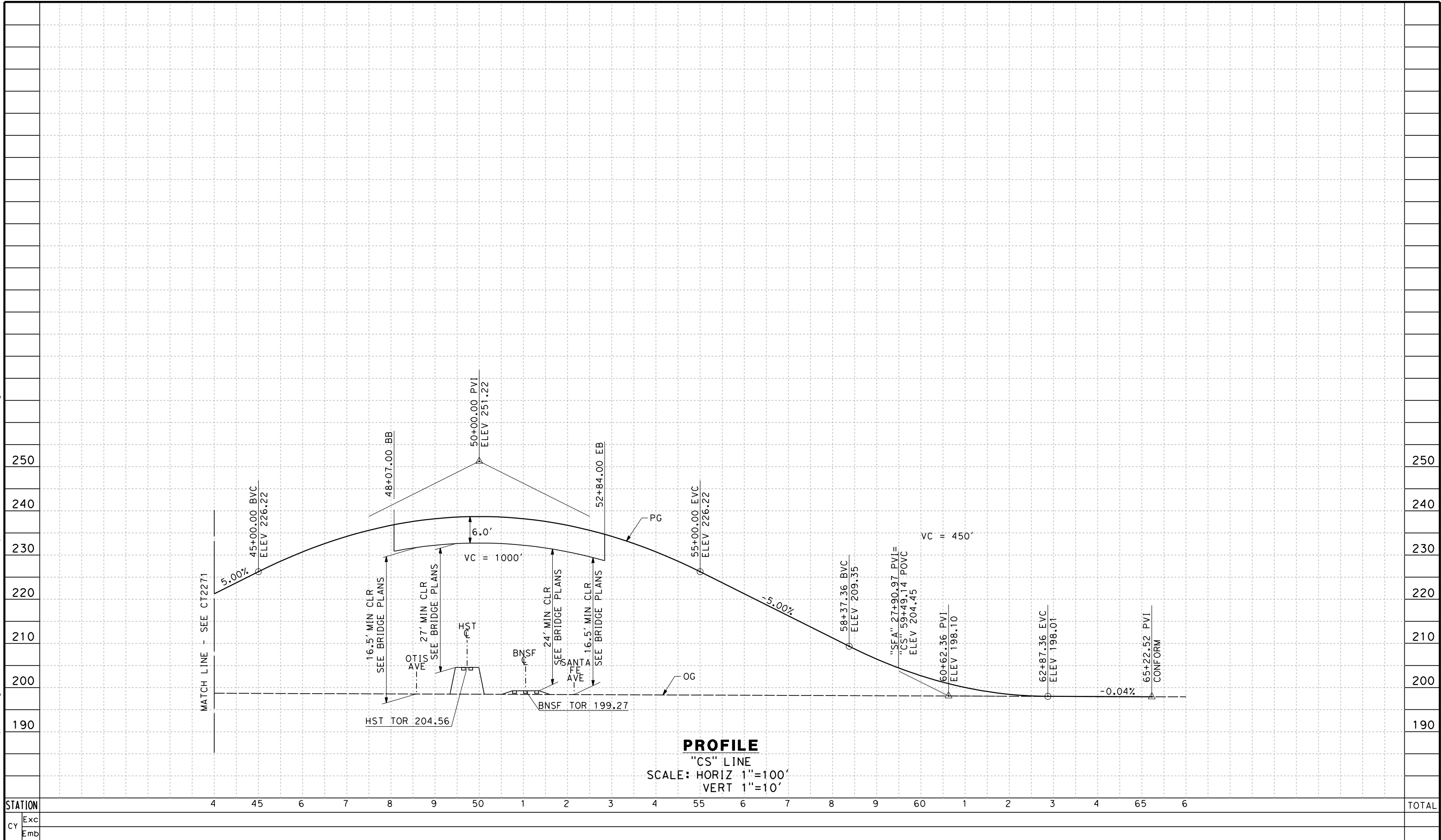
CONTRACT NO. HSR 06-0003
DRAWING NO. CT1296
SCALE AS SHOWN
SHEET NO. 14 OF 43


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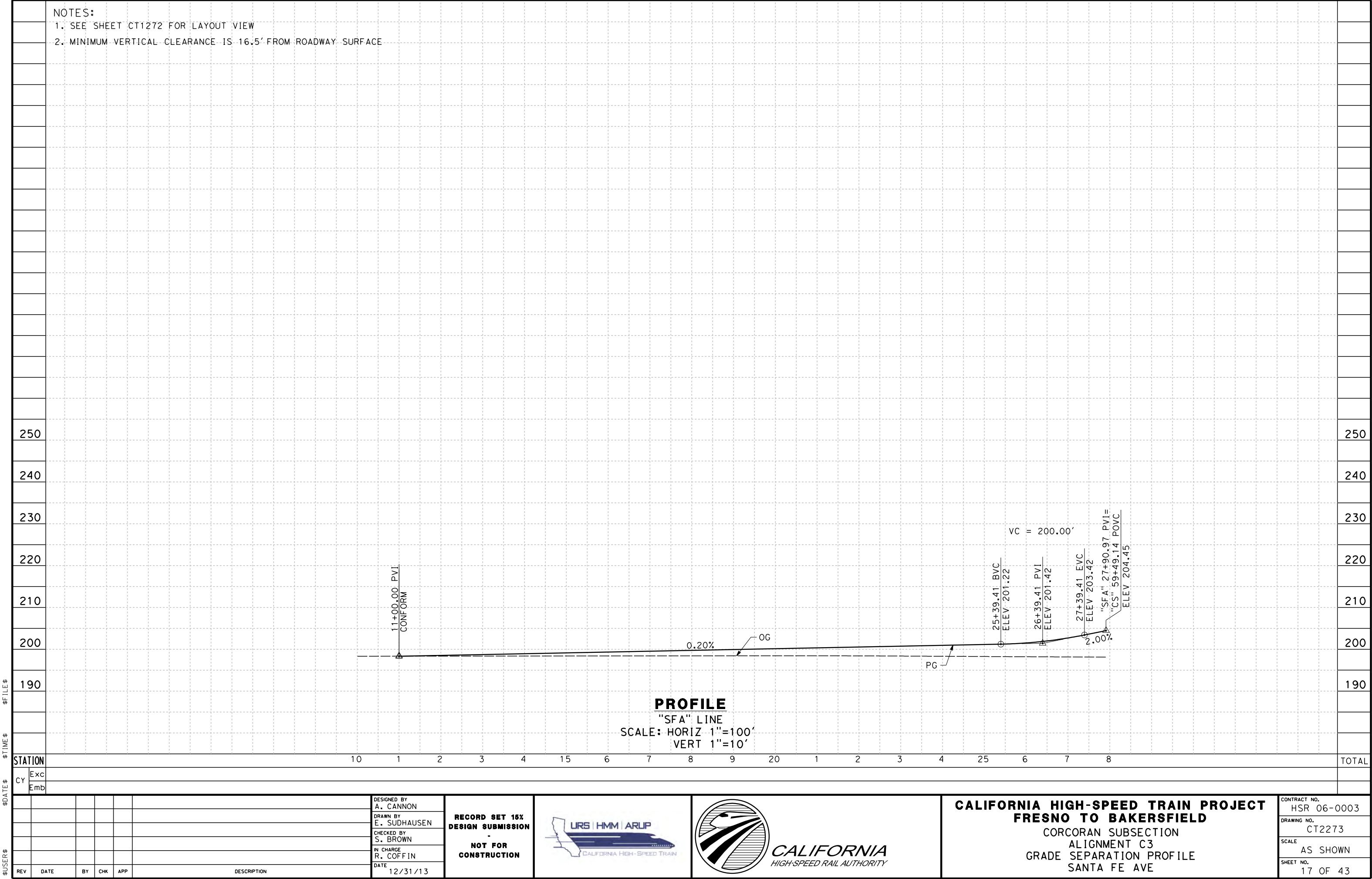
1. MINIMUM VERTICAL CLEARANCE FOR HST IS 27' FROM TOP OF RAIL
2. MINIMUM VERTICAL CLEARANCE FOR BNSF IS 24' FROM TOP OF RAIL
3. MINIMUM VERTICAL CLEARANCE FOR HST IS 16.5' FROM ROADWAY SURFACE

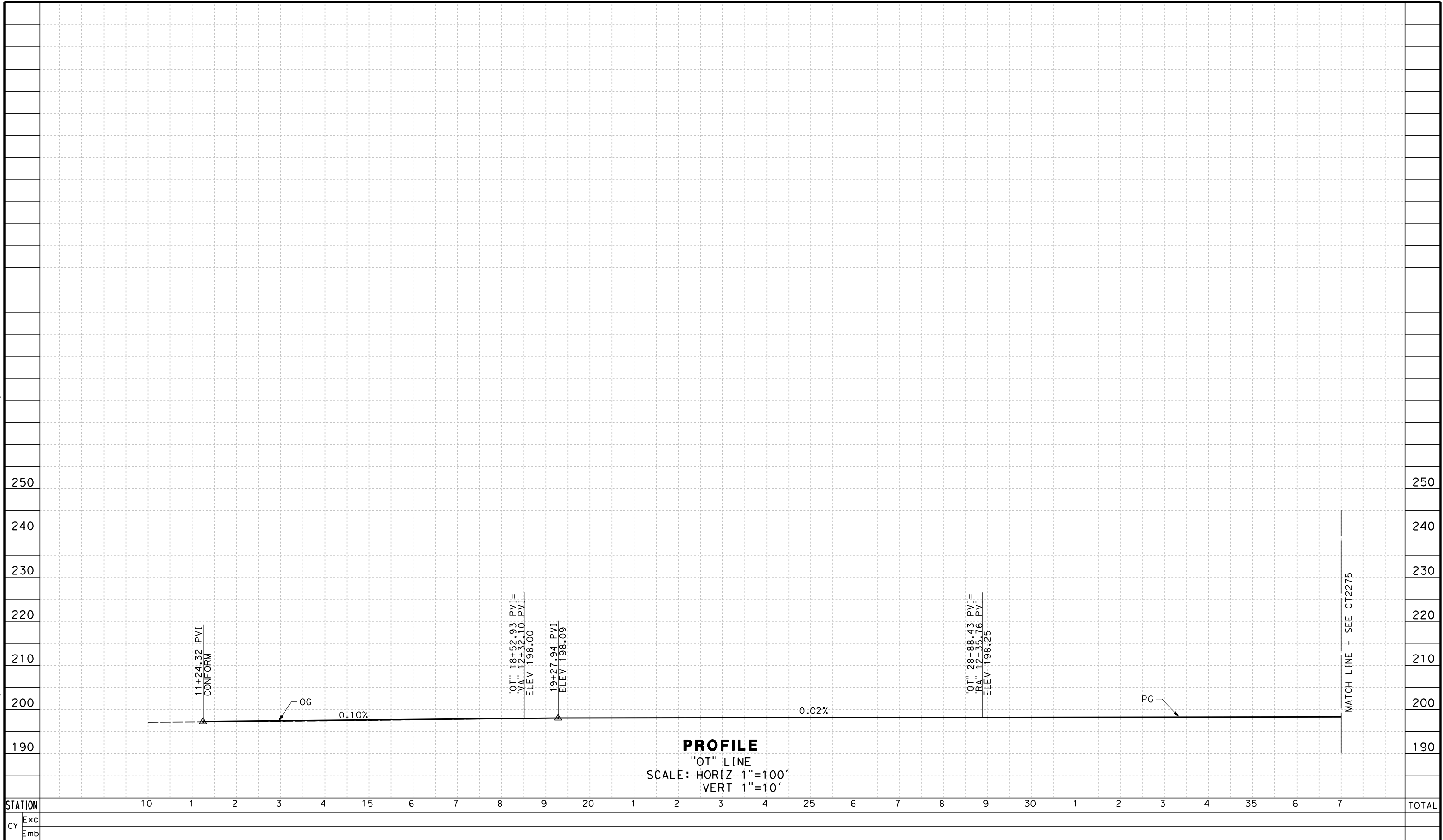
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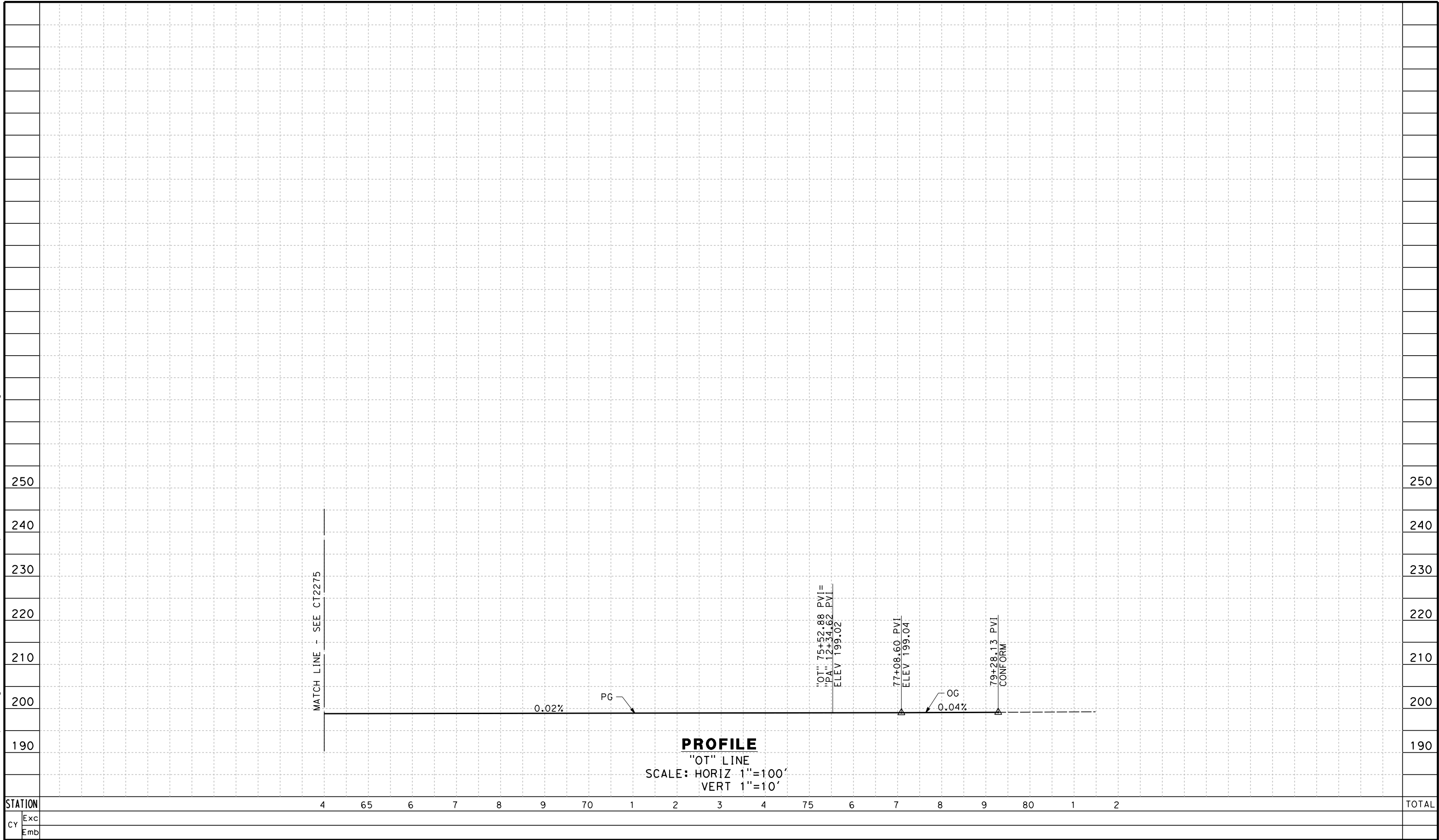
						DESIGNED BY A. CANNON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION PROFILE CHARLES ST	CONTRACT NO. HSR 06-0003
						DRAWING NO. CT2272					
						SCALE AS SHOWN					
						SHEET NO. 16 OF 43					
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 12/31/13					





						DESIGNED BY A. CANNON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION PROFILE OTIS AVE	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN	DRAWING NO. CT2274				
					CHECKED BY S. BROWN	SCALE AS SHOWN				
					IN CHARGE R. COFFIN	SHEET NO. 18 OF 43				
REV	DATE	BY	CHK	APP	DESCRIPTION	DATE 12/31/13				

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

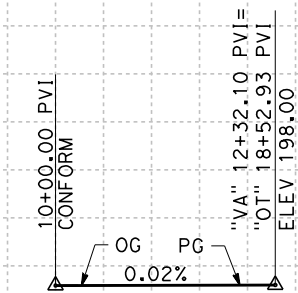


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
OTIS AVE

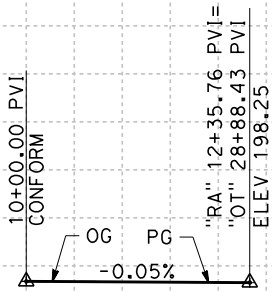
CONTRACT NO. HSR 06-0003
DRAWING NO. CT2276
SCALE AS SHOWN
SHEET NO. 20 OF 43

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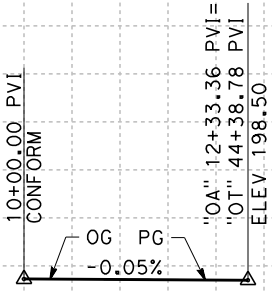
NOTES:
1. SEE SHEETS CT1273, CT1274 AND CT1275 FOR LAYOUT VIEWS



PROFILE
"VA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'



PROFILE
"RA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'



PROFILE
"OA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION		10	1	2	3	10	1	2	3	10	1	2	3	TOTAL
CY	Exc													
	Emb													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
CONNECTIONS TO OTIS AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2277
SCALE AS SHOWN
SHEET NO. 21 OF 43

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Station	Elevation
10+00.00	PVI CONFORM
12+71.30	PVI = "NA"
59+99.23	PVI = "OT"
198.76	ELEV

PROFILE
"NA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

10+00.00 PVI CONFORM

OG PG

-0.05%

"NA" 12+71.30 PVI =
"OT" 59+99.23 PVI
ELEV 198.76

Station	Elevation
10+00.00	PVI CONFORM
12+34.62	PVI = "PA"
75+52.88	PVI = "OT"
199.02	ELEV

PROFILE
"PA" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

10+00.00 PVI CONFORM

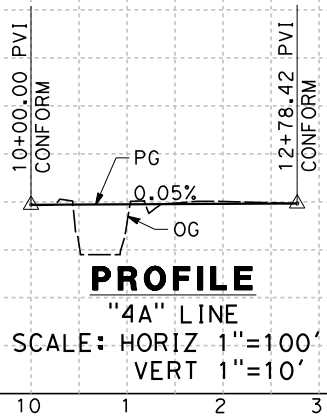
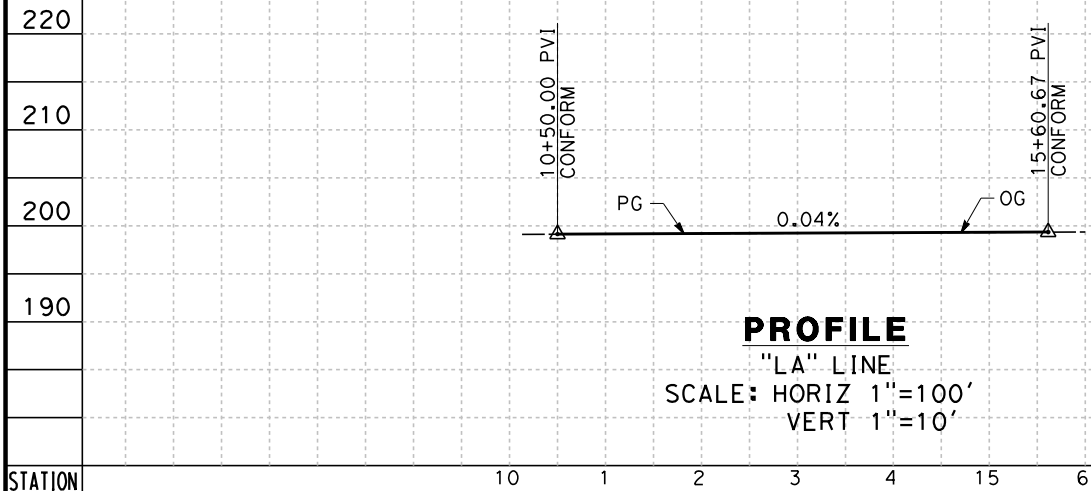
OG PG

-0.05%

"PA" 12+34.62 PVI =
"OT" 75+52.88 PVI
ELEV 199.02

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NOTES:
1. SEE SHEET CT1274 FOR LAYOUT VIEW



STATION		10	1	2	3	4	15	6					10	1	2	3					TOTAL
CY	Exc																				
	Emb																				

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION

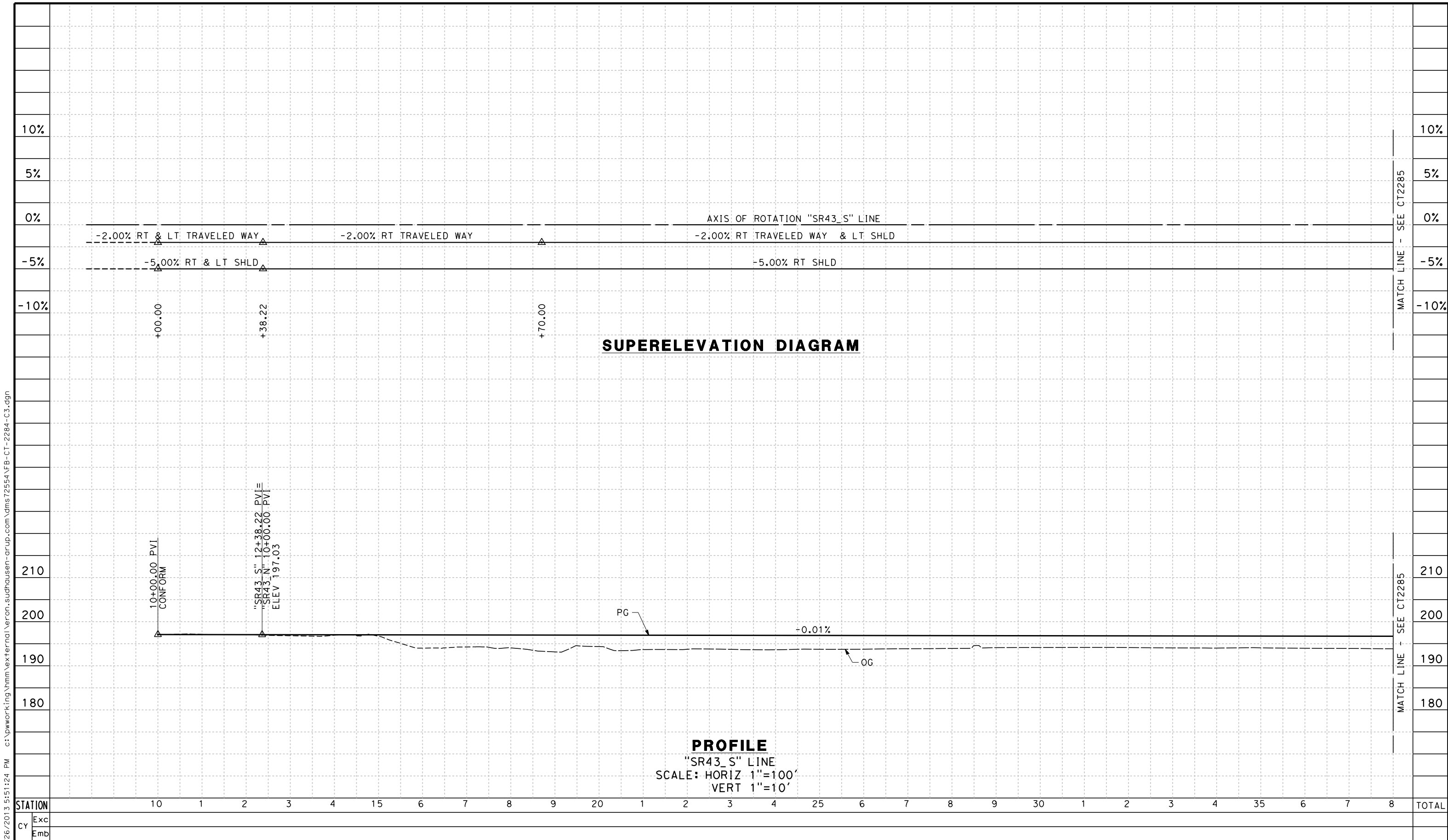
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEPARATION PROFILE
LETT'S AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2279
SCALE
AS SHOWN
SHEET NO.
23 OF 43

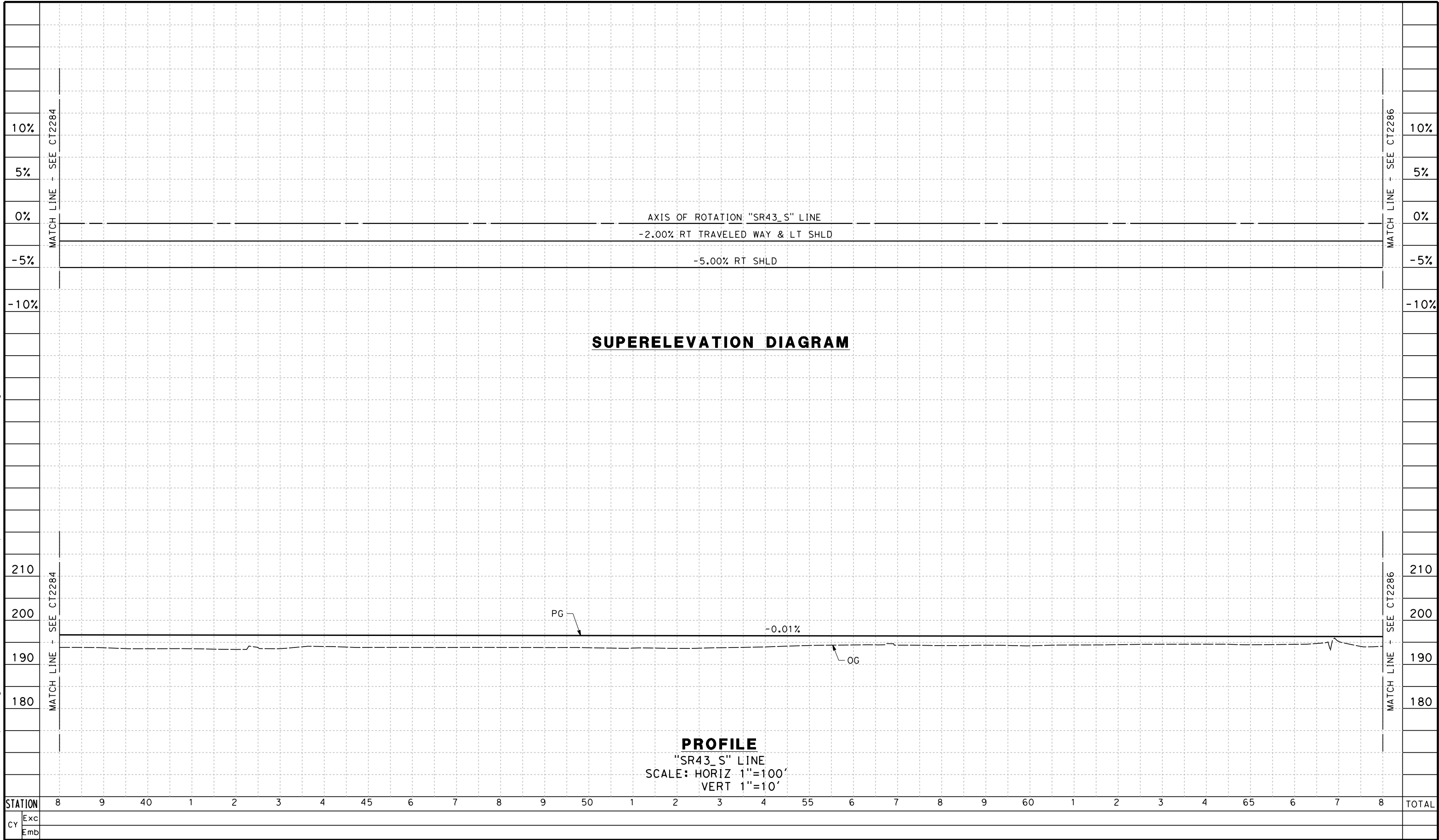
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DESIGNED BY A. CANNON	RECORD SET 15% DESIGN SUBMISSION	 CALIFORNIA HIGH-SPEED TRAIN		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 MAINLINE (SB)	CONTRACT NO. HSR 06-0003
DRAWN BY E. SUDHAUSEN					DRAWING NO. CT2284
CHECKED BY S. BROWN					SCALE AS SHOWN
IN CHARGE R. COFFIN					SHEET NO. 24 OF 43
DATE 12/31/13					

REV	DATE	BY	CHK	APP	DESCRIPTION

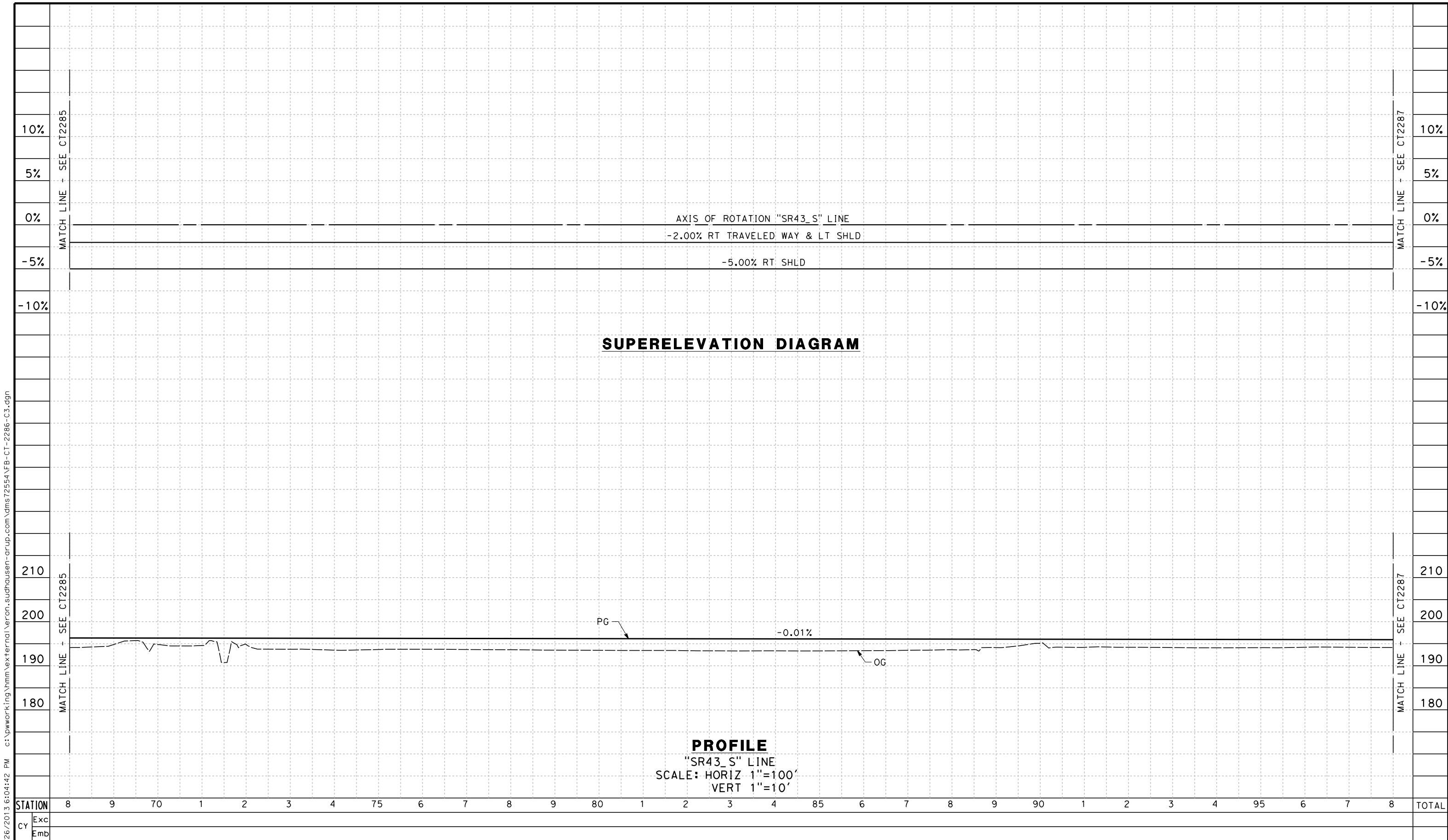
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DESIGNED BY A. CANNON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 MAINLINE (SB)	CONTRACT NO. HSR 06-0003
DRAWN BY E. SUDHAUSEN				DRAWING NO. CT2285
CHECKED BY S. BROWN				SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 25 OF 43
DATE 12/31/13				

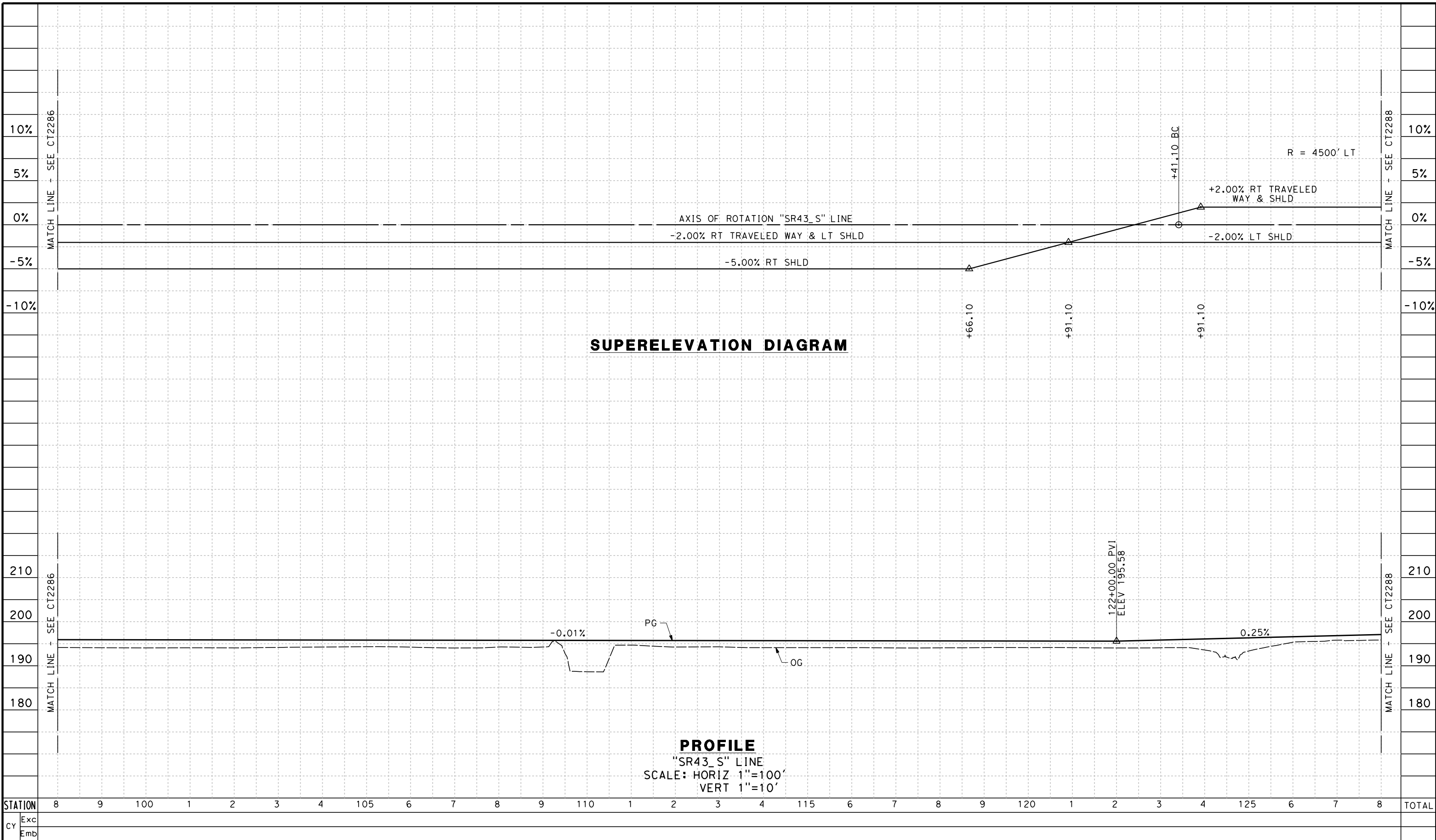
REV	DATE	BY	CHK	APP	DESCRIPTION
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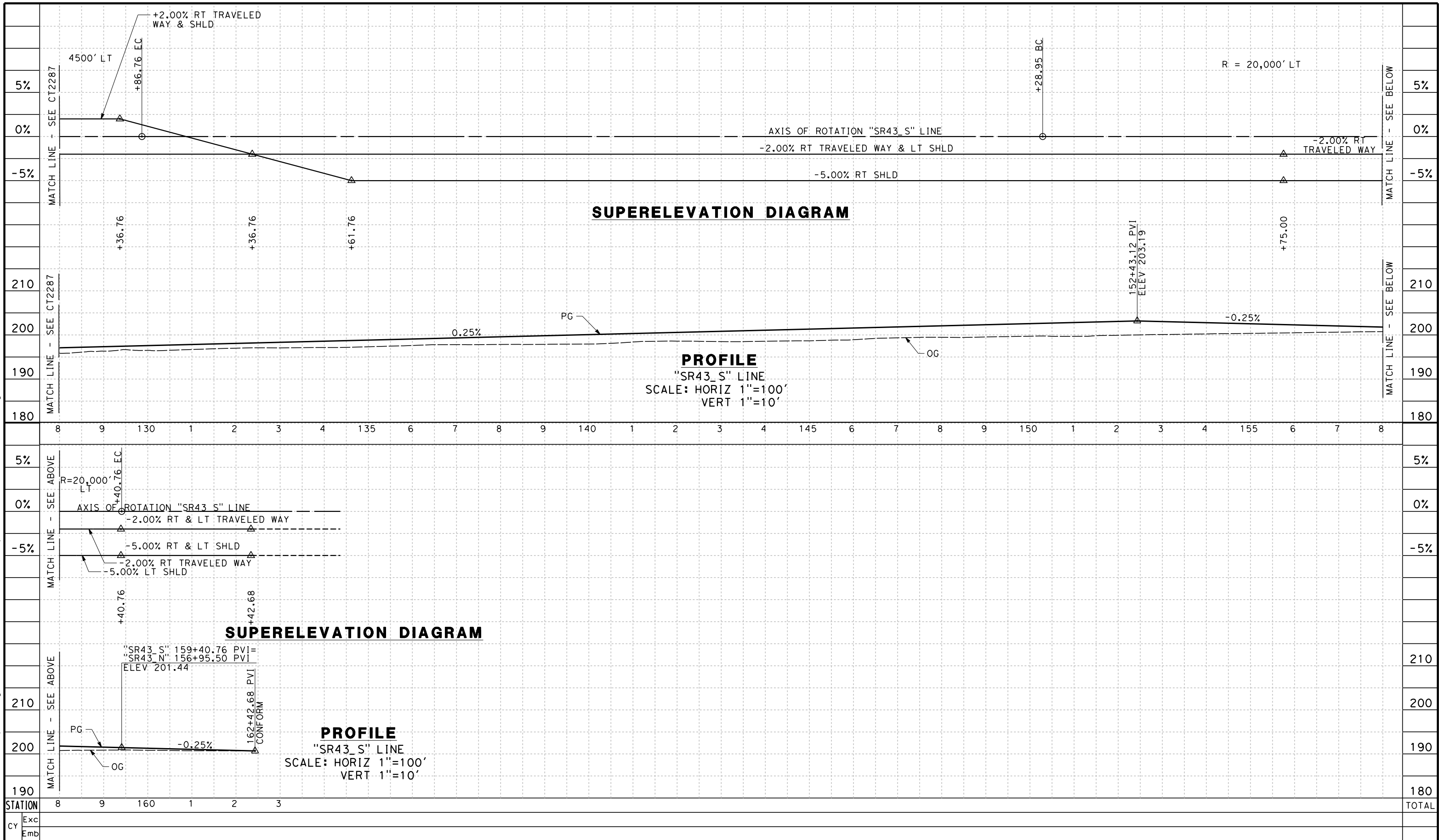
DESIGNED BY A. CANNON	RECORD SET 15% DESIGN SUBMISSION	 CALIFORNIA HIGH-SPEED TRAIN		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEP PROFILE & SUPERELEVATION DIAGRAM STATE ROUTE 43 MAINLINE (SB)	CONTRACT NO. HSR 06-0003
DRAWN BY E. SUDHAUSEN					DRAWING NO. CT2286
CHECKED BY S. BROWN					SCALE AS SHOWN
IN CHARGE R. COFFIN					SHEET NO. 26 OF 43
DATE 12/31/13					
REV	DATE	BY	CHK	APP	DESCRIPTION

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

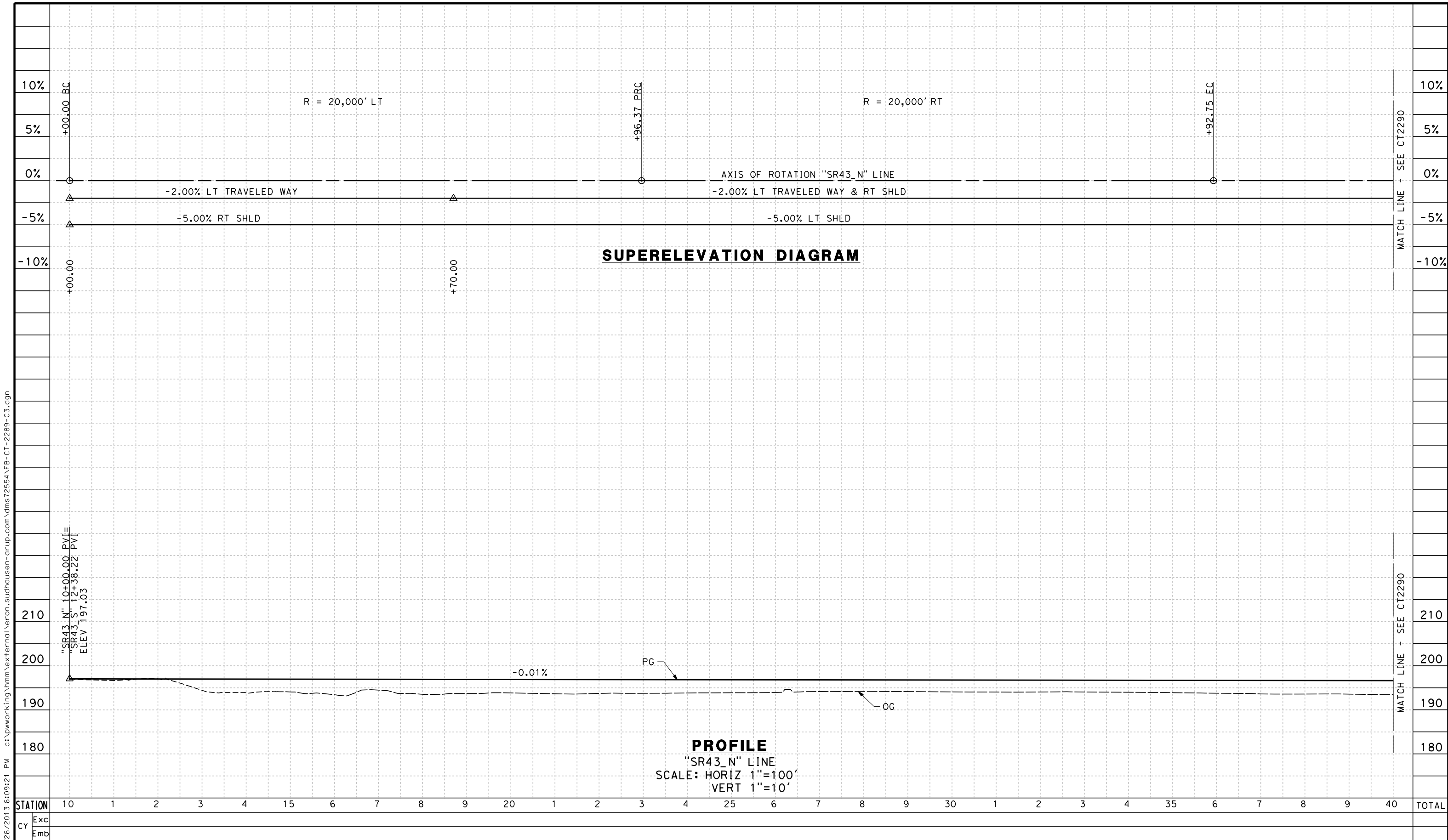
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 MAINLINE (SB)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2288
SCALE
AS SHOWN
SHEET NO.
28 OF 43

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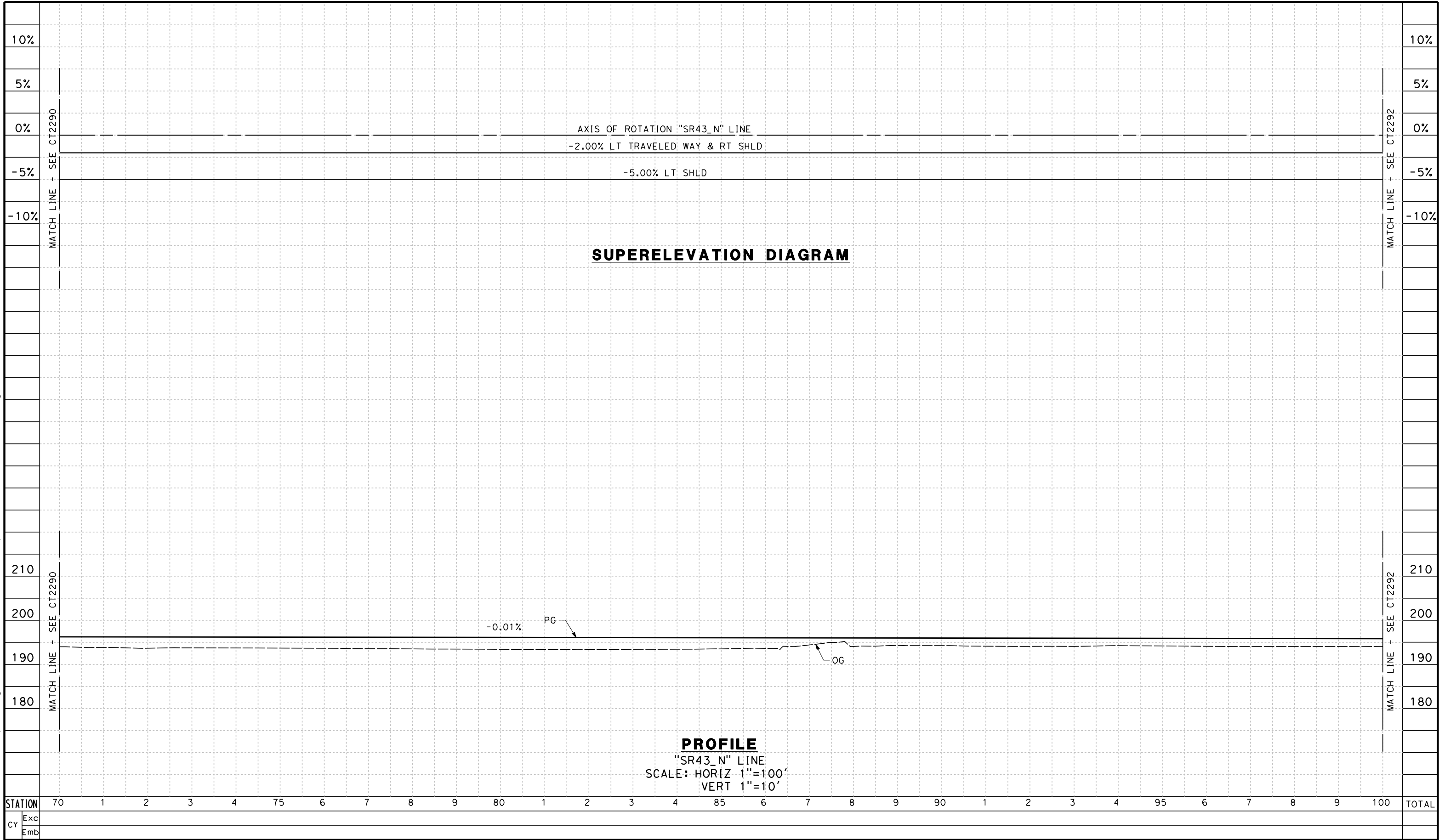


12/31/13

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

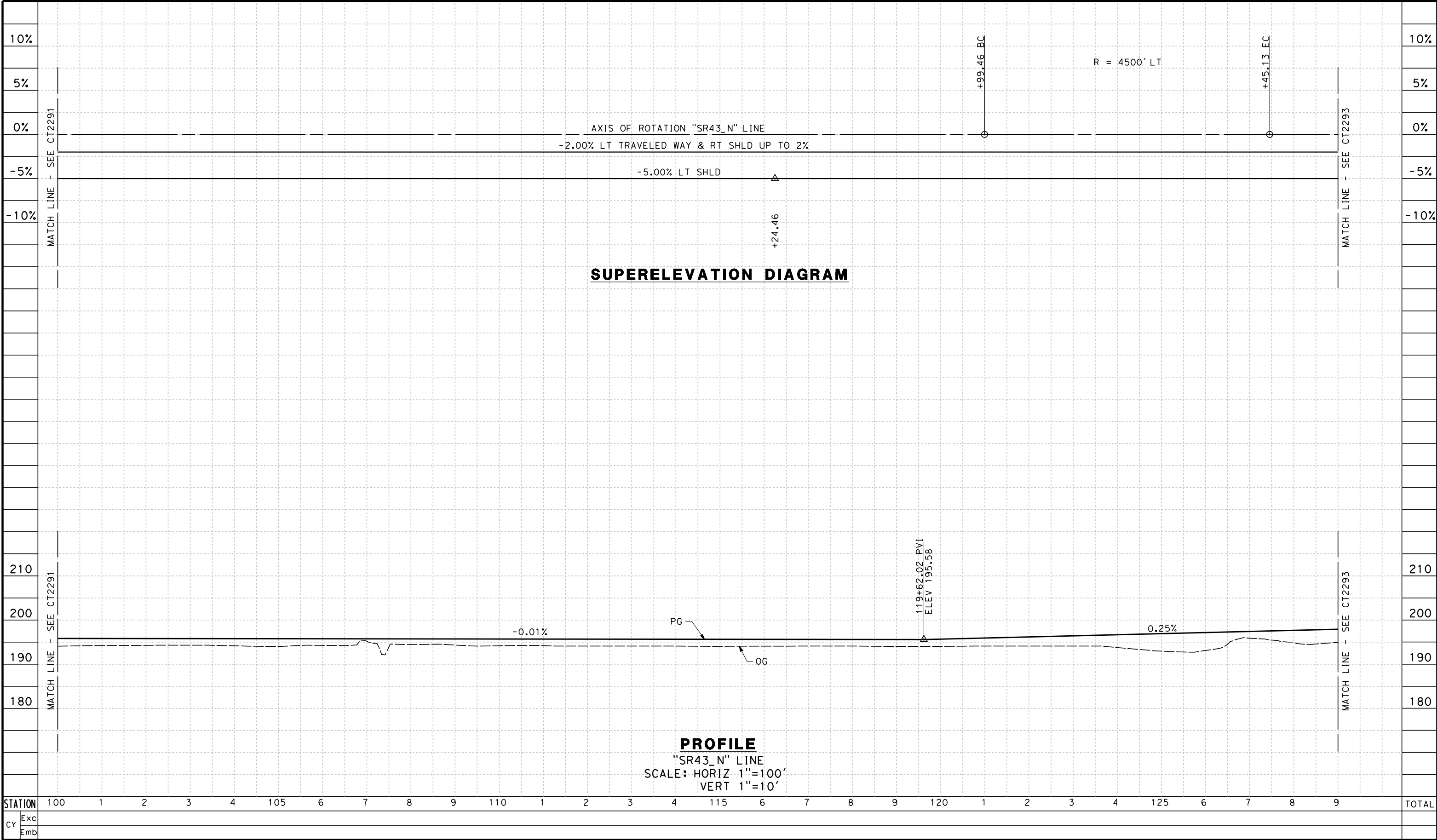
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALIGNMENT/OPTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 MAINLINE (NB)

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2291
SCALE
AS SHOWN
SHEET NO.
31 OF 43

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R. COFFIN
DATE
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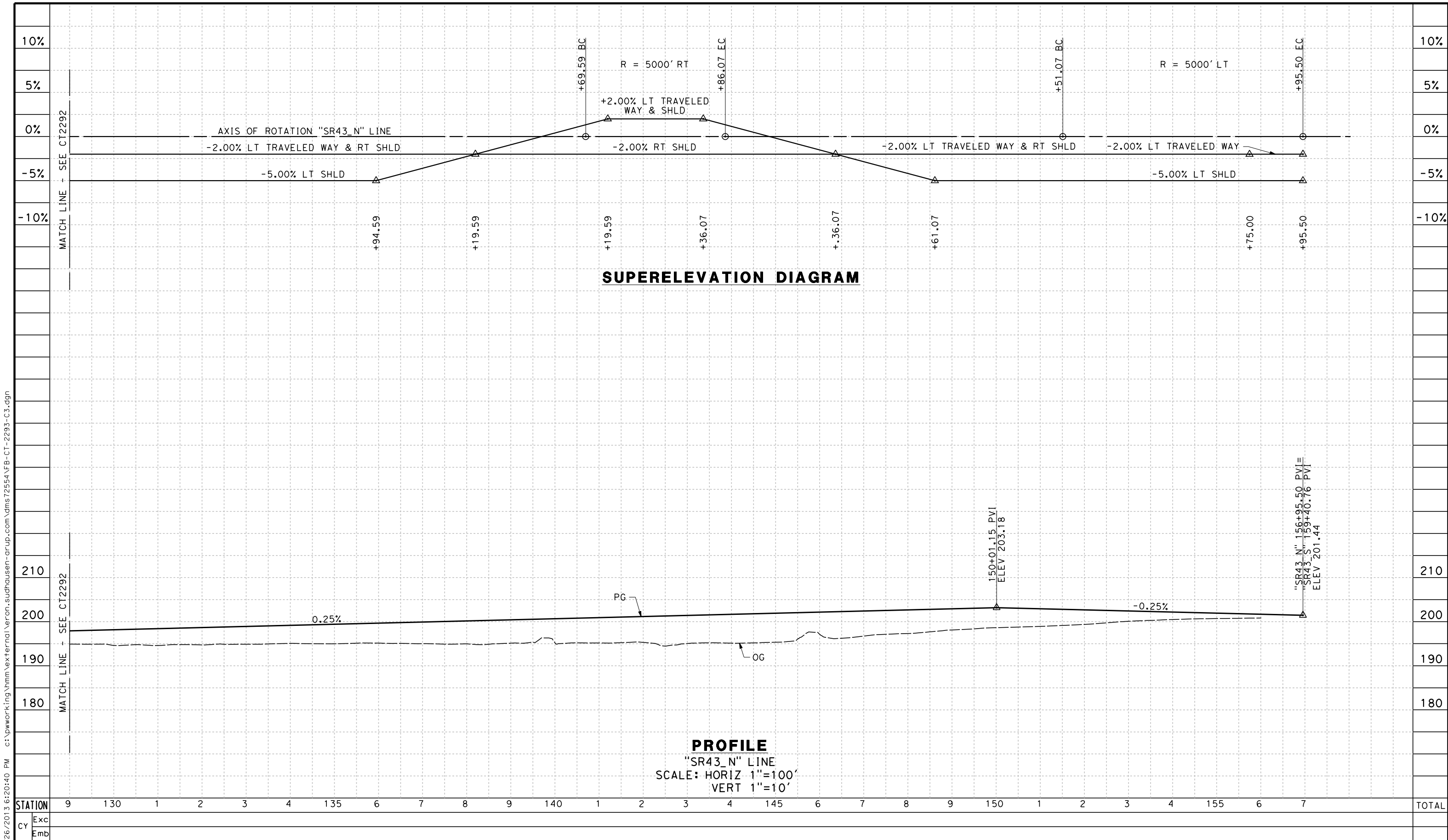
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CONSTRUCTION**





**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 MAINLINE (NB)

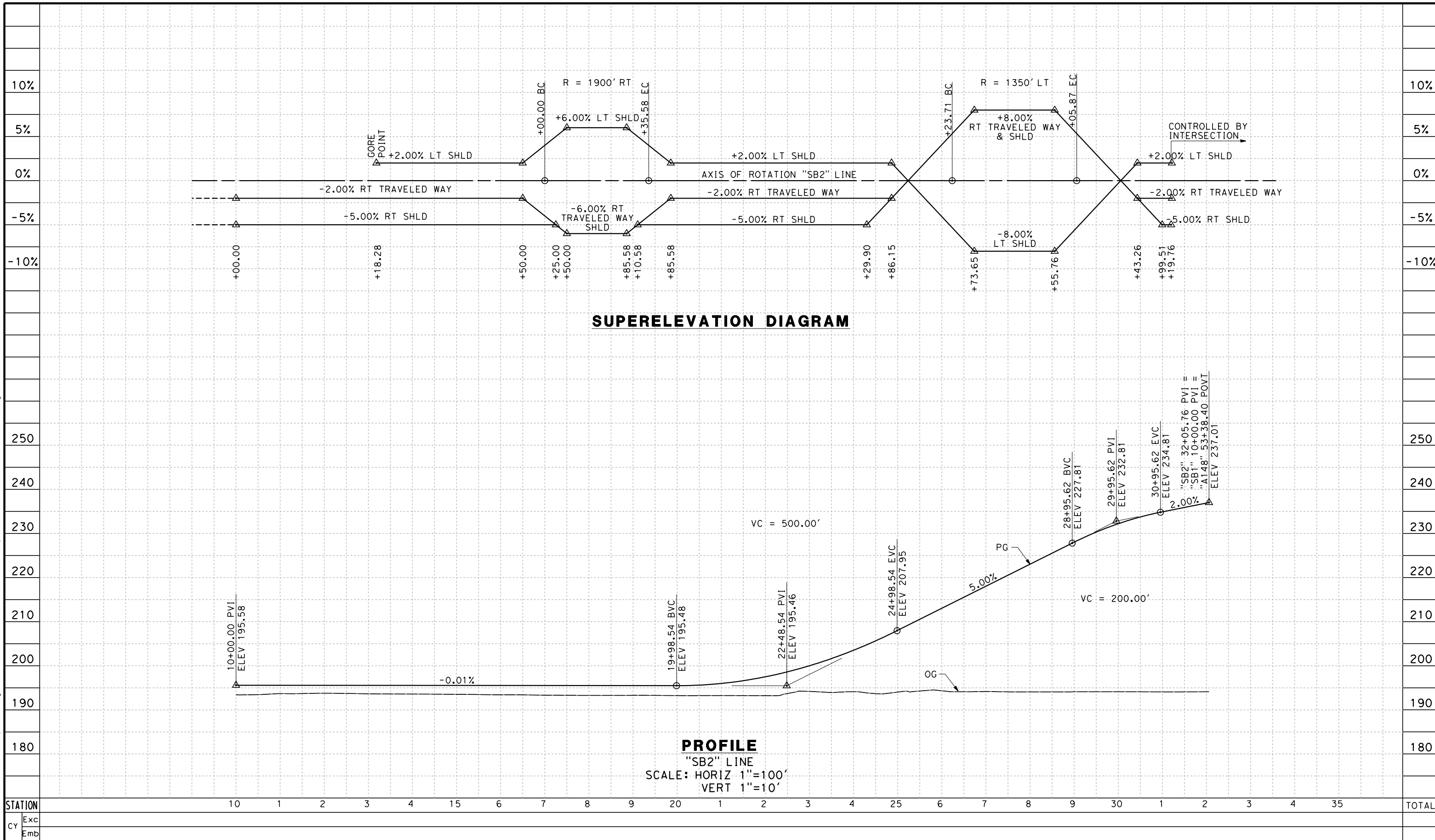
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2292
SCALE
AS SHOWN
SHEET NO.
32 OF 43

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							DRAWN BY E. SUDHAUSEN										DRAWING NO. CT2293
							CHECKED BY S. BROWN										SCALE AS SHOWN
							IN CHARGE R. COFFIN										SHEET NO. 33 OF 43
							DATE 12/31/13										
REV	DATE	BY	CHK	APP	DESCRIPTION												

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DATE 12/31/13

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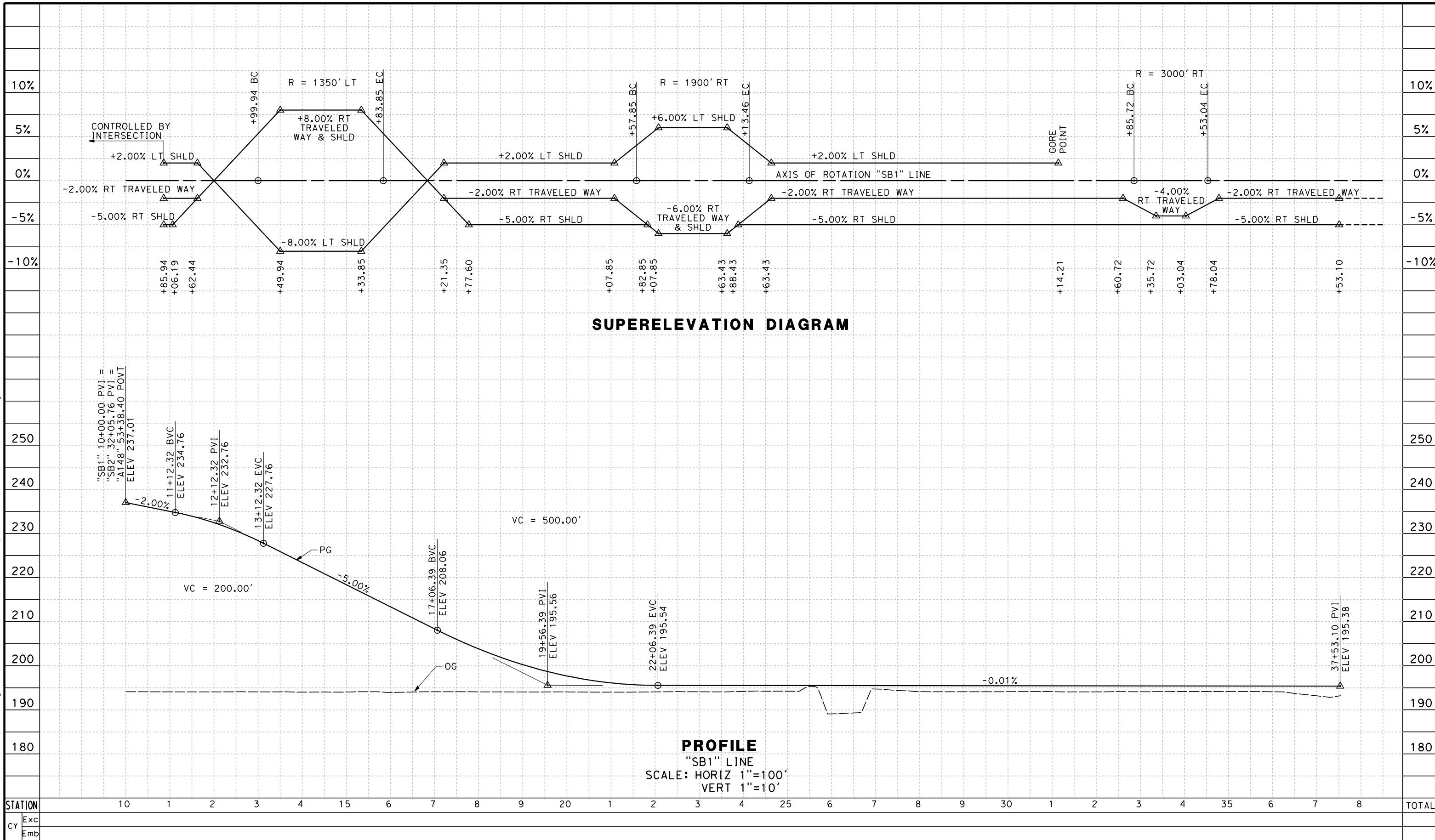
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

CORCORAN SUBSECTION
ALIGNMENT C3

GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 SB OFF RAMP

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2294
SCALE AS SHOWN
SHEET NO. 34 OF 43

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S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

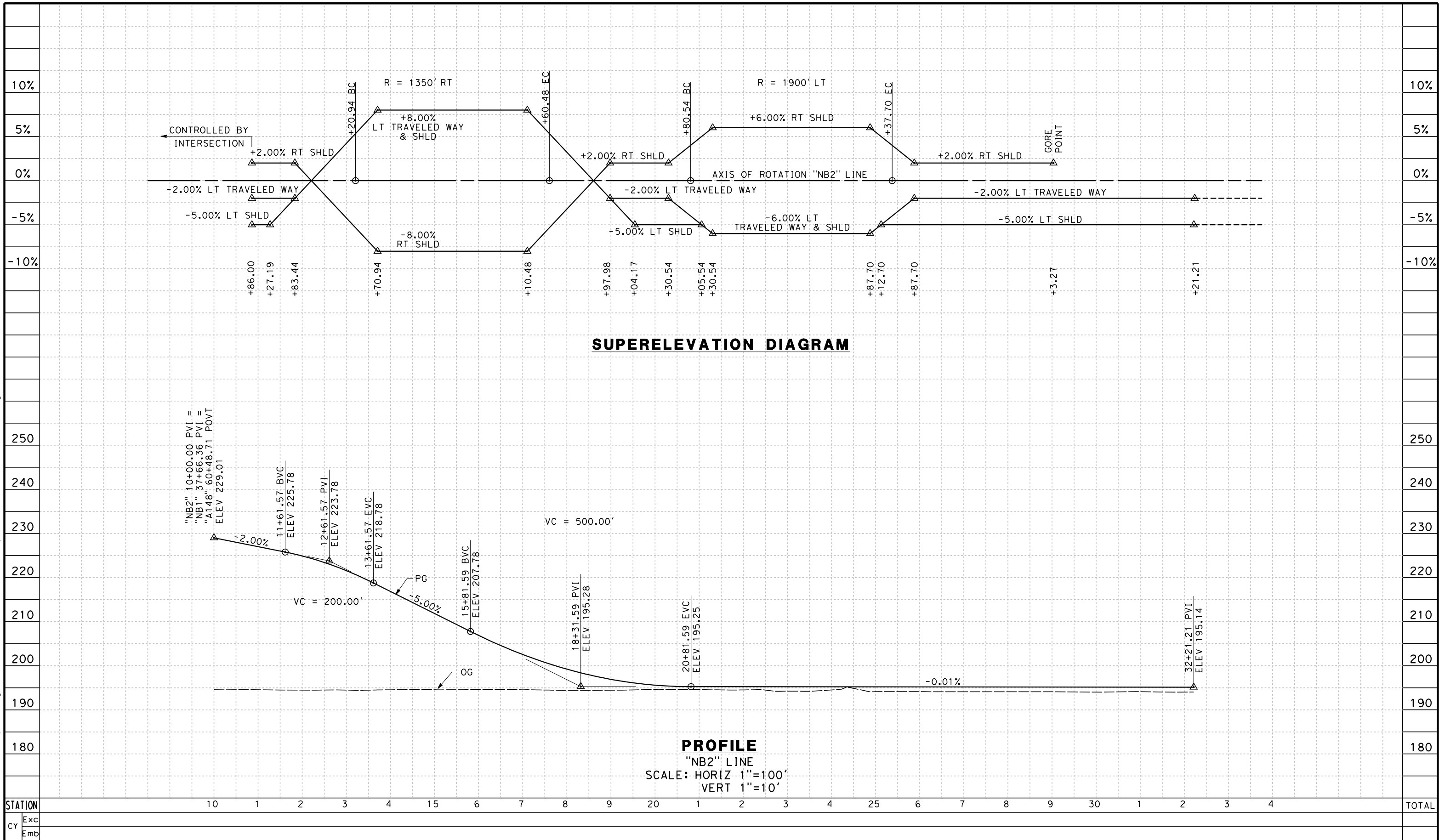
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**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 SB ON RAMP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2295
SCALE
AS SHOWN
SHEET NO.
35 OF 43

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E. SUDHAUSEN
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IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION

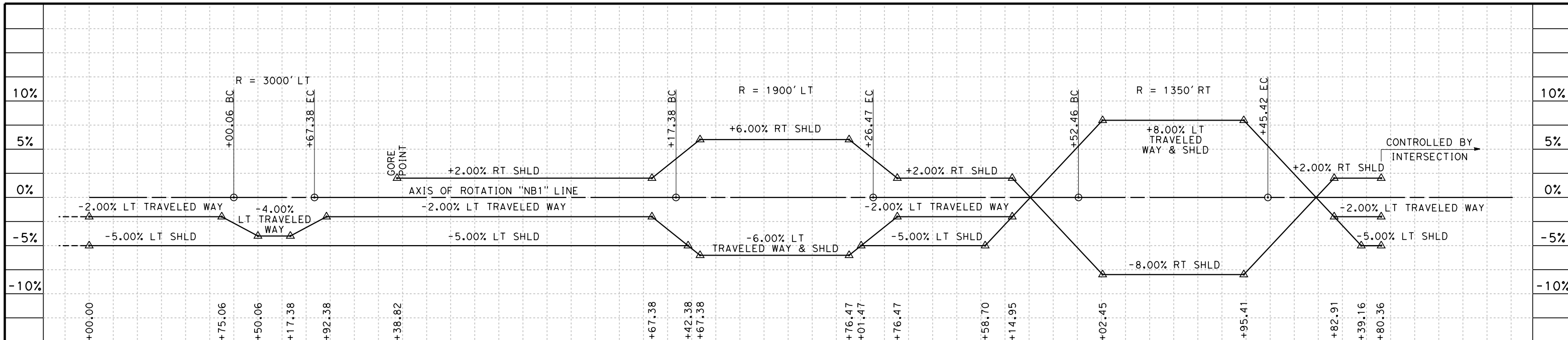
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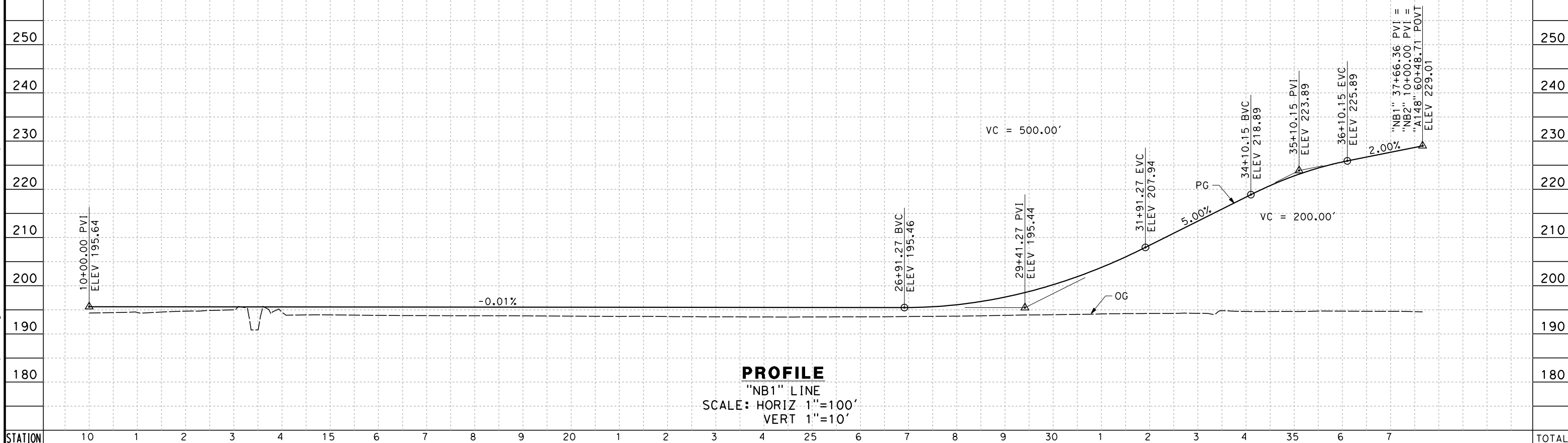
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FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 NB OFF RAMP

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2296
SCALE
AS SHOWN
SHEET NO.
36 OF 43

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SUPERELEVATION DIAGRAM



PROFILE

"NB1" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'

STATION	10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	6	7	8	9	30	1	2	3	4	35	6	7		TOTAL
CY	Exc																													
	Emb																													

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15%
DESIGN SUBMISSION

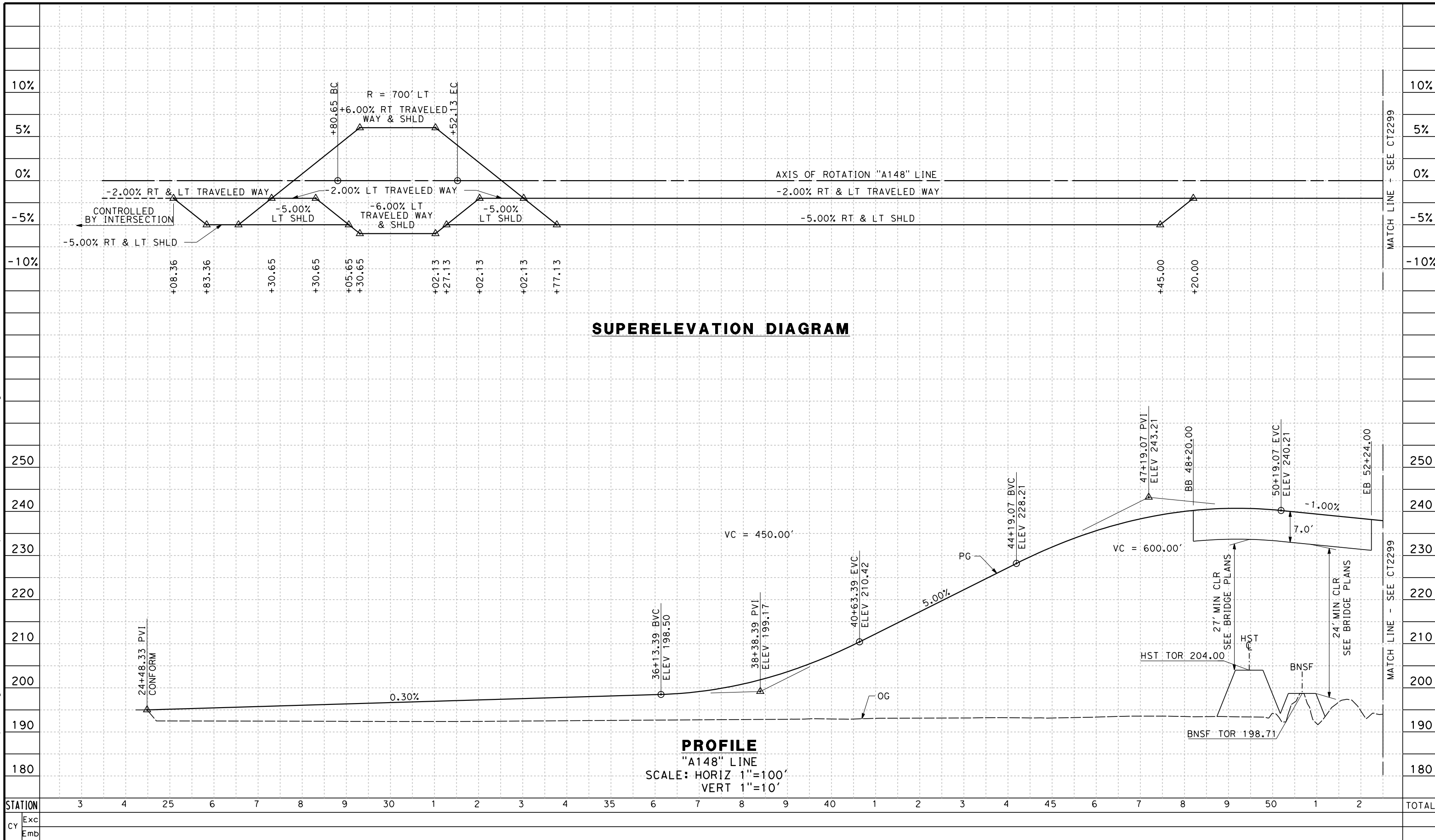
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
STATE ROUTE 43 NB ON RAMP

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2297
SCALE AS SHOWN
SHEET NO. 37 OF 43

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E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

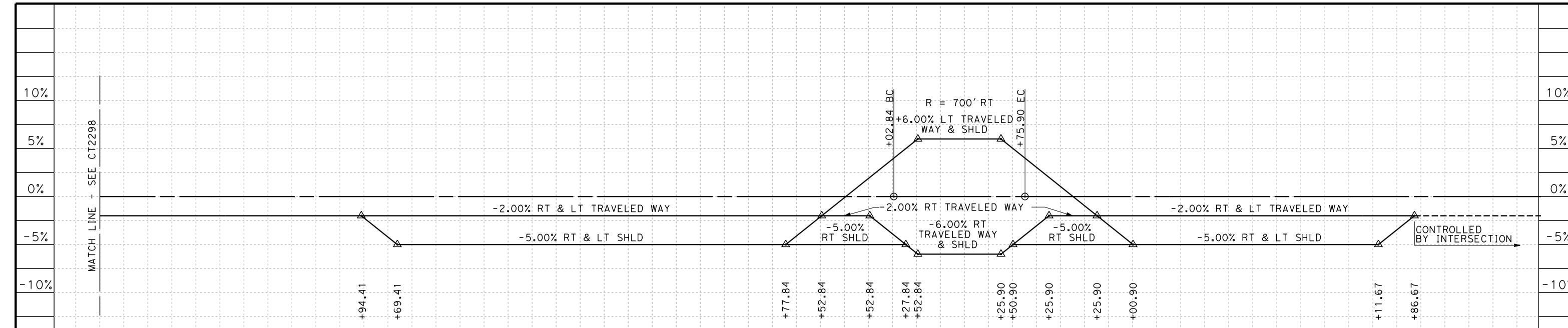
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DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

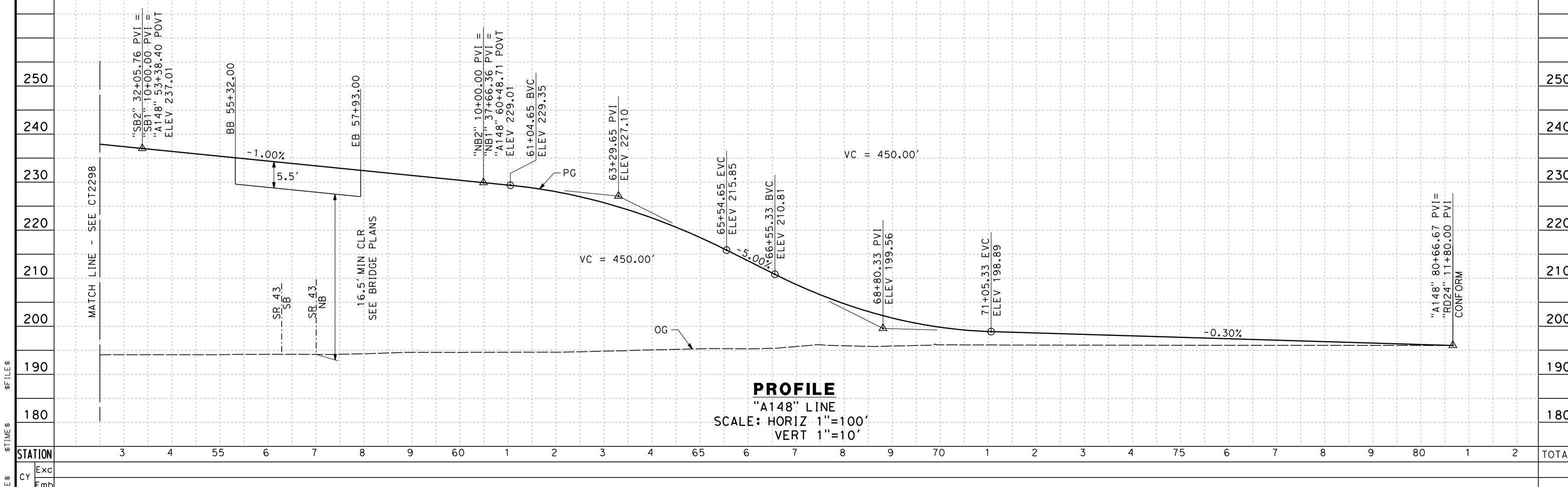


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
CORCORAN SUBSECTION
ALIGNMENT C3
GRADE SEP PROFILE & SUPERELEVATION DIAGRAM
AVE 148

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2298
SCALE
AS SHOWN
SHEET NO.
38 OF 43

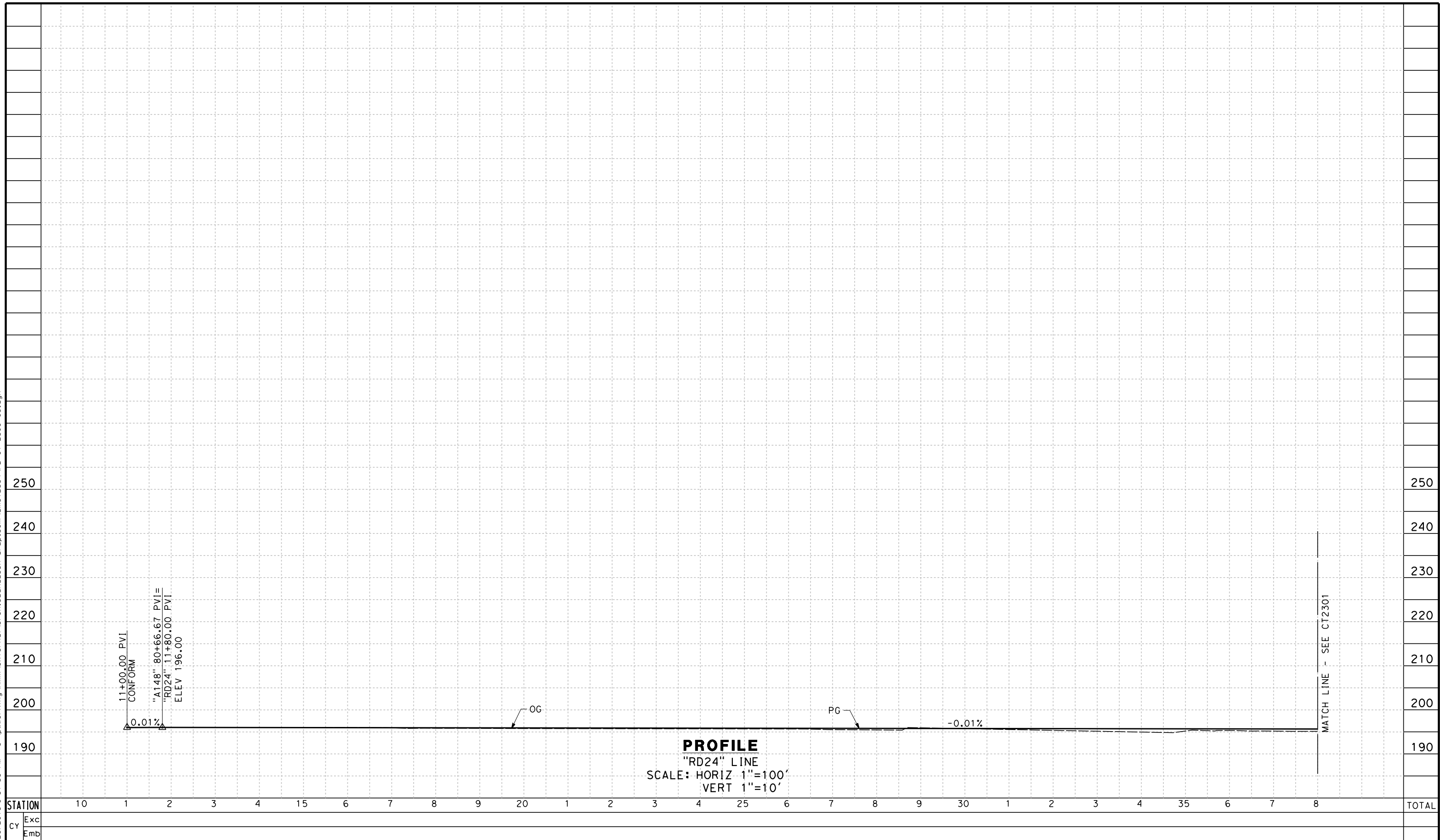





SUPERELEVATION DIAGRAM



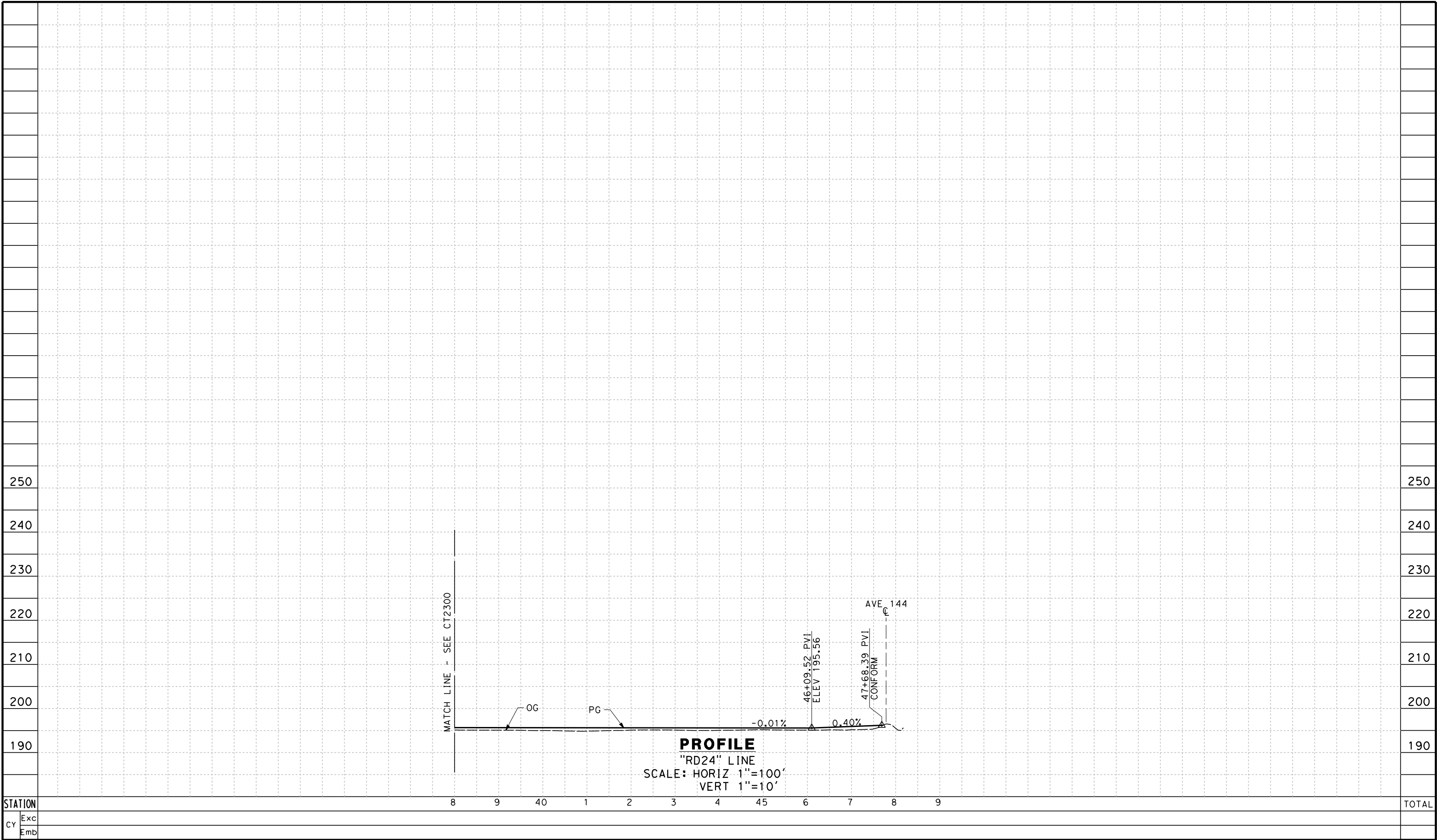
PROFILE
"A148" LINE
SCALE: HORIZ 1"=100'
VERT 1"=10'



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						DESIGNED BY A. CANNON	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 		CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION PROFILE RD 24	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN	DRAWING NO. CT2300					
					CHECKED BY S. BROWN	SCALE AS SHOWN					
					IN CHARGE R. COFFIN	SHEET NO. 40 OF 43					
					DATE 12/31/13						
REV	DATE	BY	CHK	APP	DESCRIPTION						

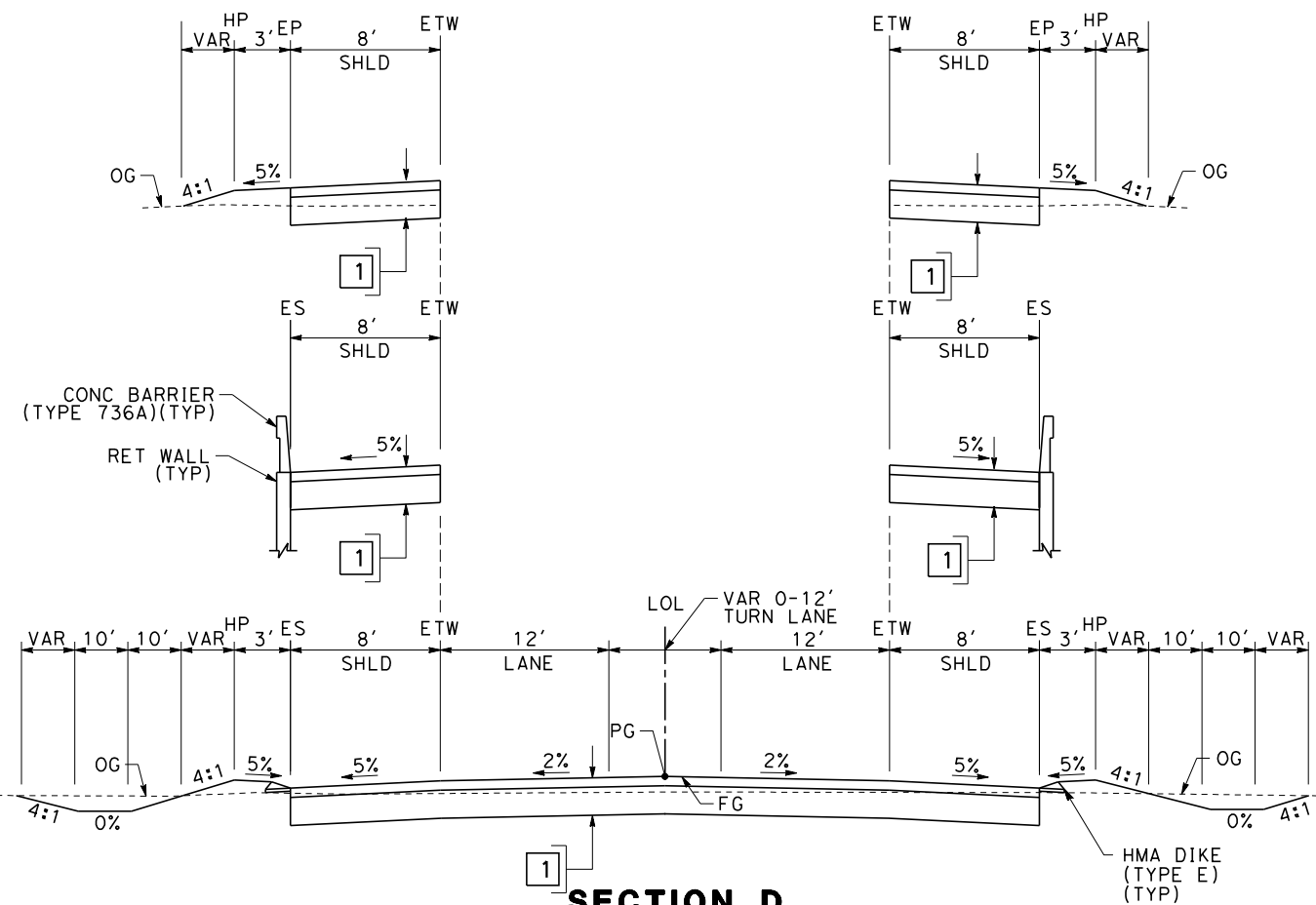
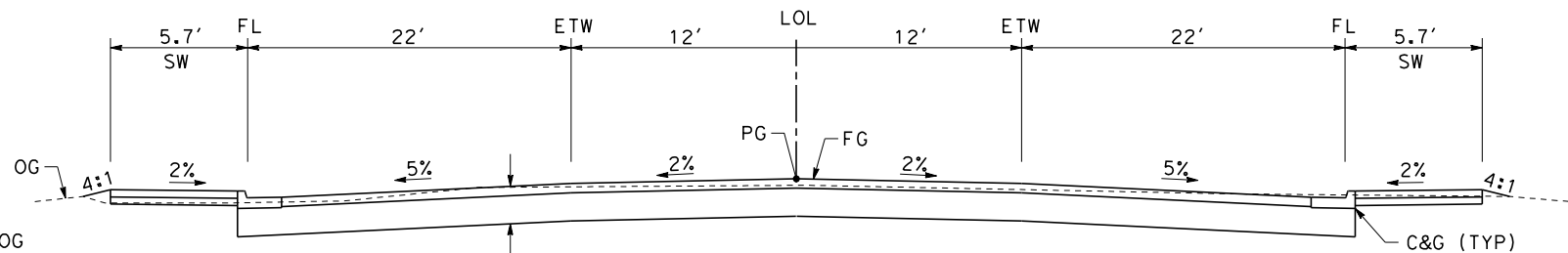
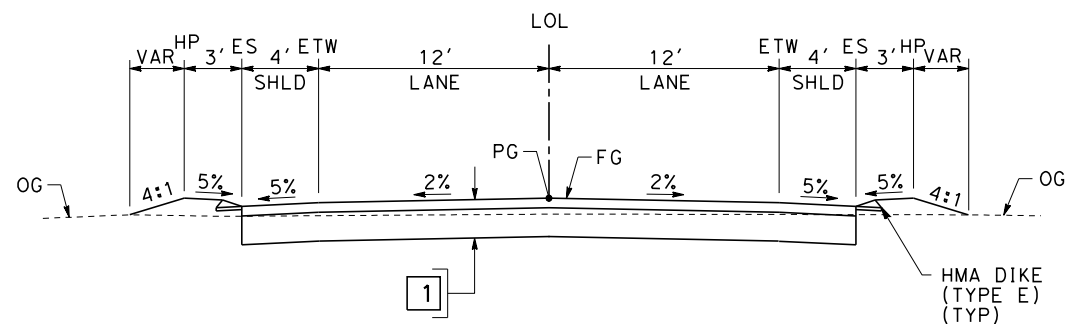
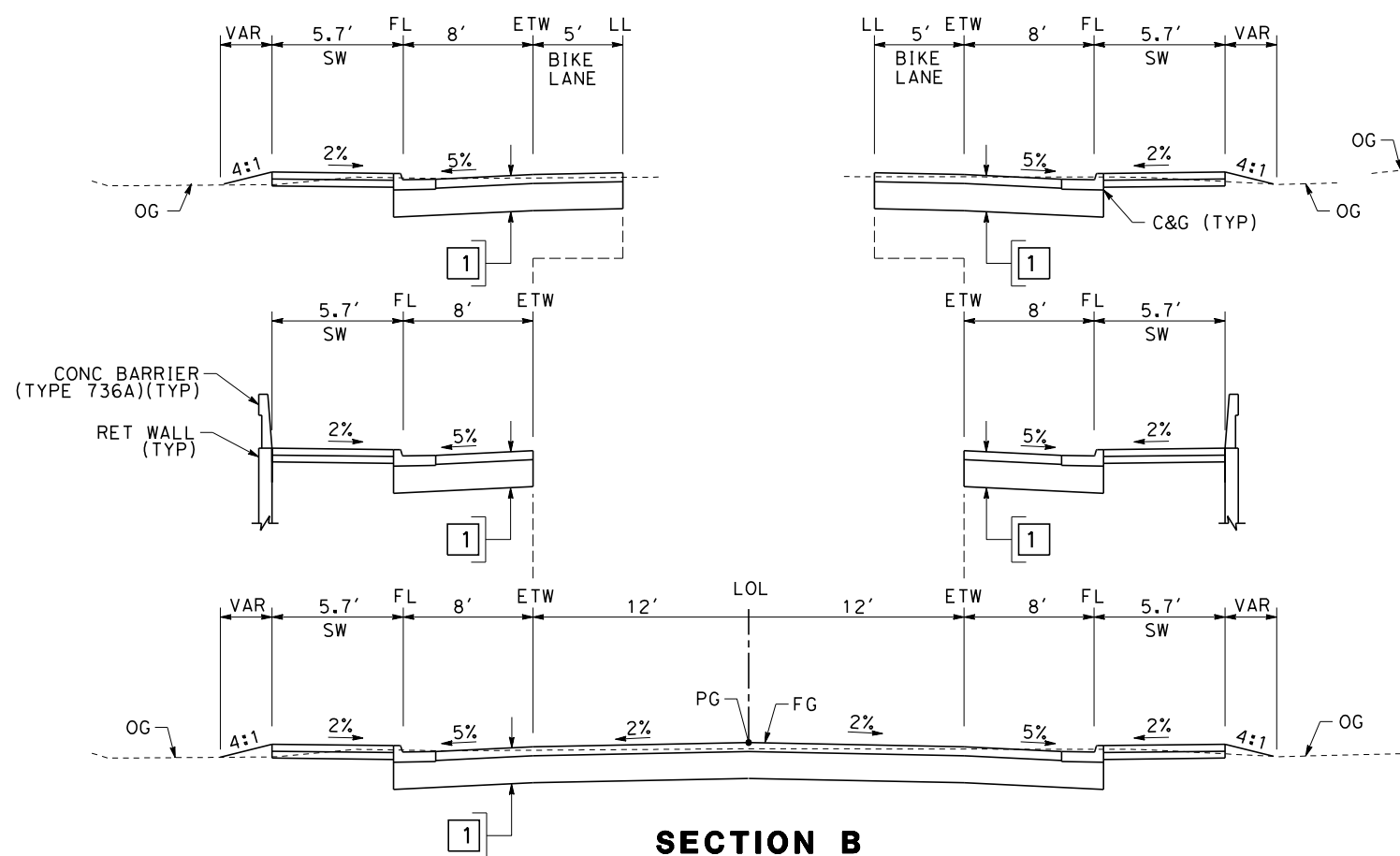
c:\pwworking\hmm\external\eron.sudhausen-arup.com\dms72554\FB-CT-2301-C3.dgn 12/26/2013 6:39:01 PM eron.sudhausen



					DESIGNED BY A. CANNON					RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD CORCORAN SUBSECTION ALIGNMENT C3 GRADE SEPARATION PROFILE RD 24	CONTRACT NO. HSR 06-0003
					DRAWN BY E. SUDHAUSEN									DRAWING NO. CT2301
					CHECKED BY S. BROWN									SCALE AS SHOWN
					IN CHARGE R. COFFIN									SHEET NO. 41 OF 43
					DATE 12/31/13									
REV	DATE	BY	CHK	APP	DESCRIPTION									

1 0.50' HMA (TYPE A)
1.00' CL2 AB

2 0.65' HMA (TYPE A)
1.75' CL2 AB



\$USER\$ \$DATE\$ \$TIME\$ \$FILES\$

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
A. CANNON
DRAWN BY
E. SUDHAUSEN
CHECKED BY
S. BROWN
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

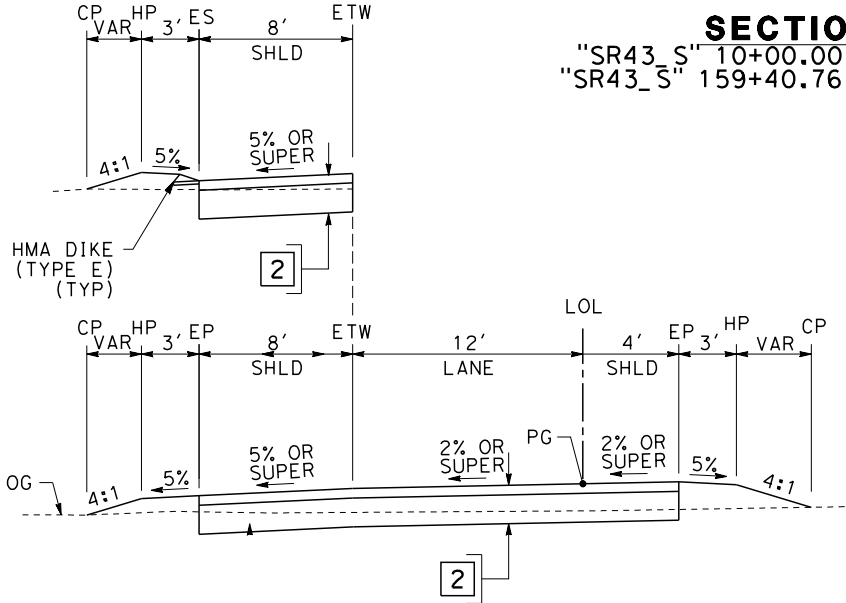
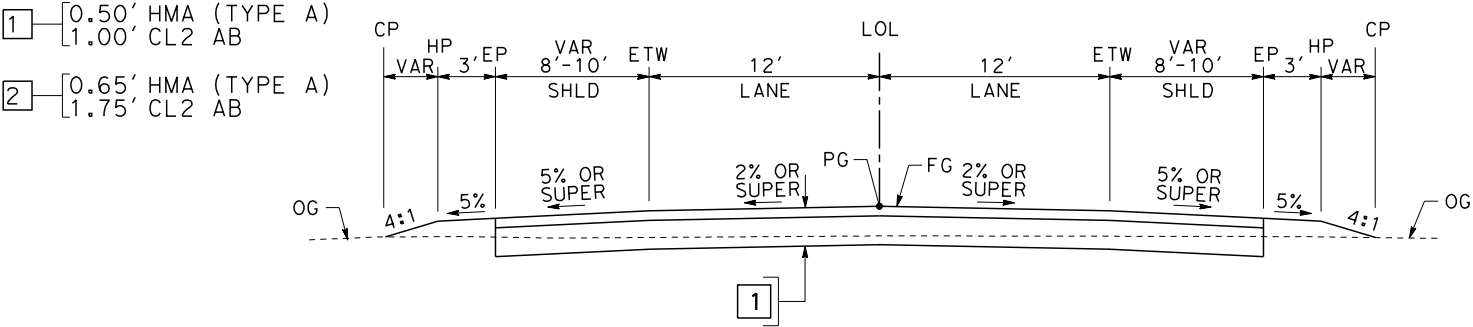
CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3044
SCALE
AS SHOWN
SHEET NO.
42 OF 43

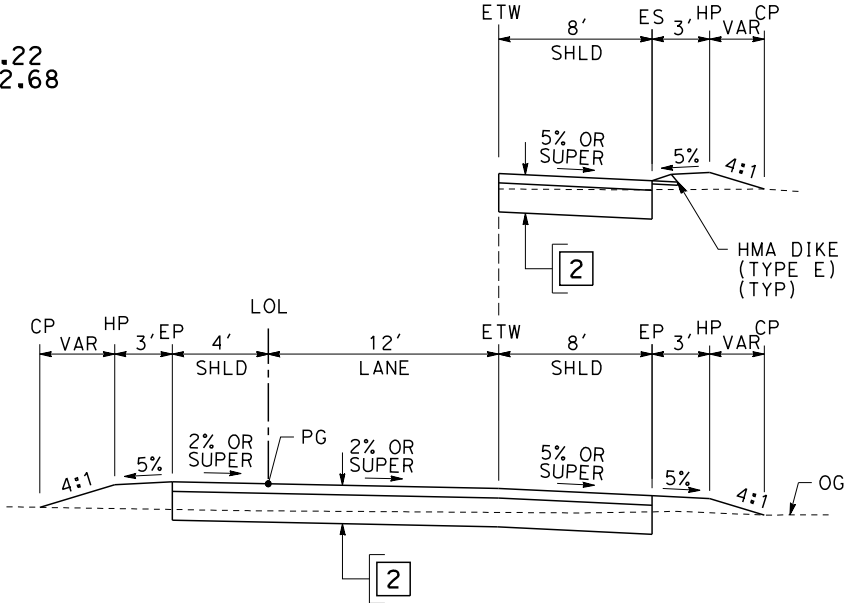
TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
CHARLES ST	CS	30	HDM/CITY OF CORCORAN
SANTA FE AVE	SFA	35/25	HDM/CITY OF CORCORAN
OTIS AVE	OT	35(25*)	HDM/CITY OF CORCORAN
NILES AVE	-	35	HDM/CITY OF CORCORAN
VERNAL AVE	VA	35(25*)	HDM/CITY OF CORCORAN
RAMBO AVE	RA	35(25*)	HDM/CITY OF CORCORAN
ORANGE AVE	OA	35	HDM/CITY OF CORCORAN
NORTH AVE	NA	35(25*)	HDM/CITY OF CORCORAN
PATTERSON AVE	PA	35	HDM/CITY OF CORCORAN
LETTS AVE	LA	35	HDM/CITY OF CORCORAN
STATE ROUTE 43	SR43_S/ SR43_N	70	HDM/CALTRANS
STATE ROUTE 43 SB OFF RAMP	SB2	50/25	HDM/CALTRANS
STATE ROUTE 43 SB ON RAMP	SB1	50/25	HDM/CALTRANS
STATE ROUTE 43 NB OFF RAMP	NB2	50/25	HDM/CALTRANS
STATE ROUTE 43 NB ON RAMP	NB1	50/25	HDM/CALTRANS
AVENUE 148	A148	45	TULARE COUNTY/TULARE COUNTY
ROAD 24	RD24	55	TULARE COUNTY/TULARE COUNTY

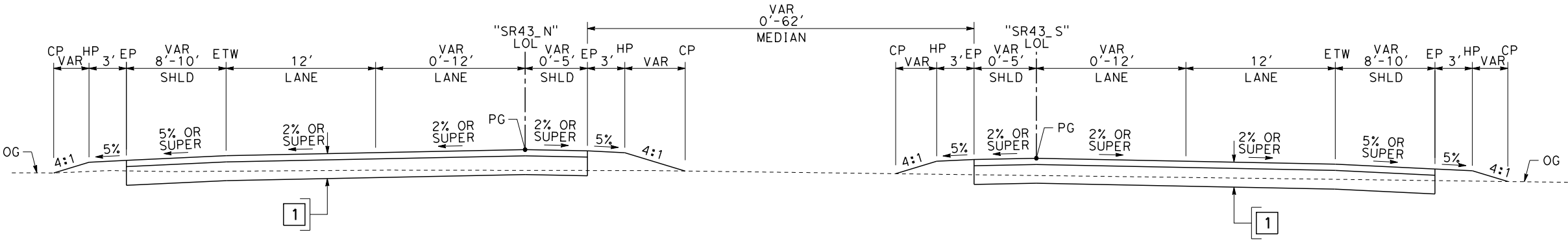
* WILL REQUIRE REDUCED DESIGN SPEED AT HORIZONTAL CURVE PRIOR TO STOP CONDITION



SECTION G
"NB1" 10+00.00 TO 37+66.36
"NB2" 10+00.00 TO 32+21.21



SECTION H
"SB1" 10+00.00 TO 37+53.10
"SB2" 10+00.00 TO 32+05.76



SECTION F
"SR43_N" 10+00.00 TO 156+95.50
"SR43_S" 12+38.22 TO 159+40.76

\$USER \$DATE \$TIME \$FILES

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY A. CANNON
DRAWN BY E. SUDHAUSEN
CHECKED BY S. BROWN
IN CHARGE R. COFFIN
DATE 12/31/13

RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION

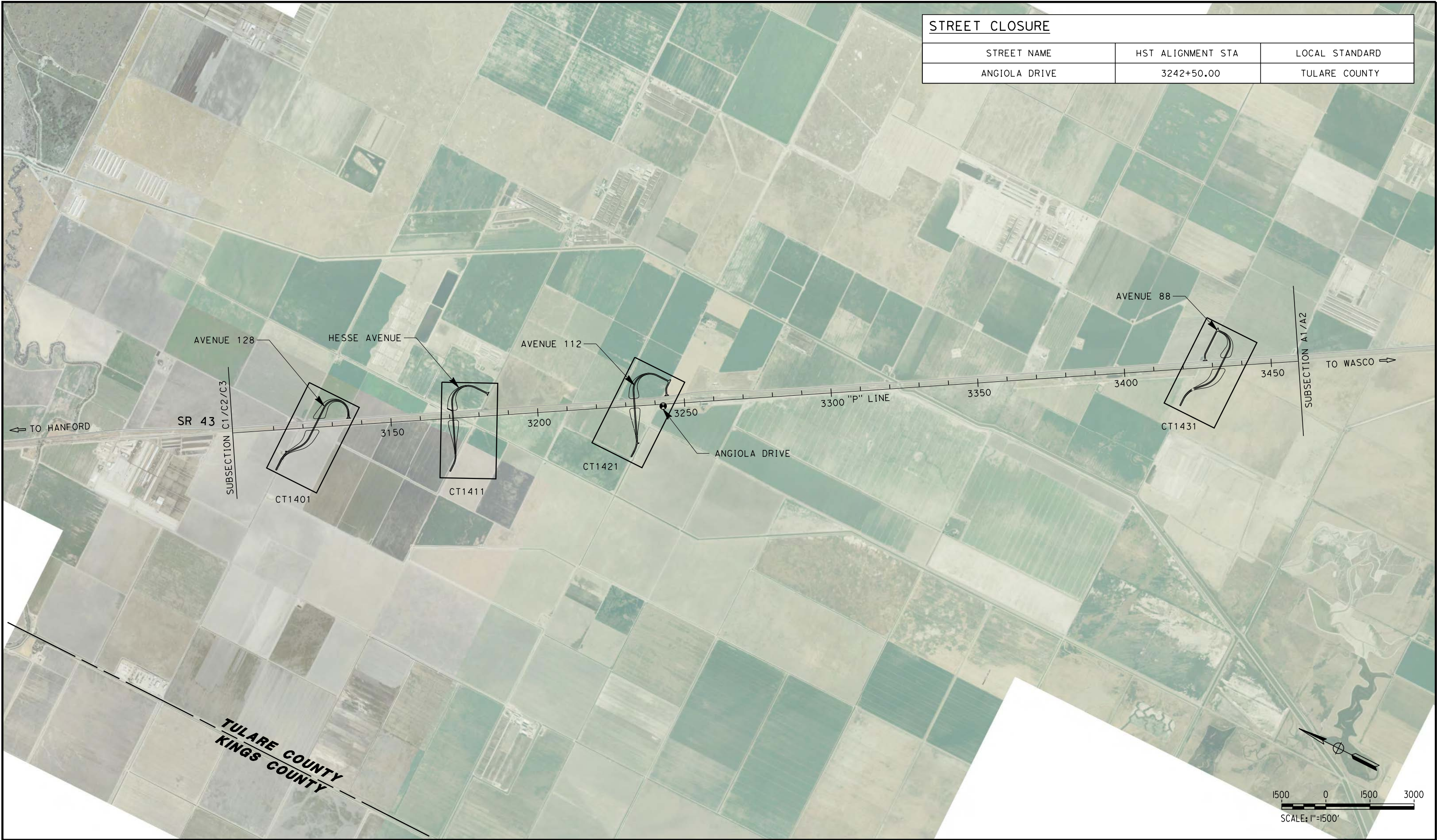


CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
CORCORAN SUBSECTION
ALIGNMENT C3
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO. HSR 06-0003
DRAWING NO. CT3045
SCALE AS SHOWN
SHEET NO. 43 OF 43

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STREET CLOSURE		
STREET NAME	HST ALIGNMENT STA	LOCAL STANDARD
ANGIOLA DRIVE	3242+50.00	TULARE COUNTY



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY V. ORTEGA
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

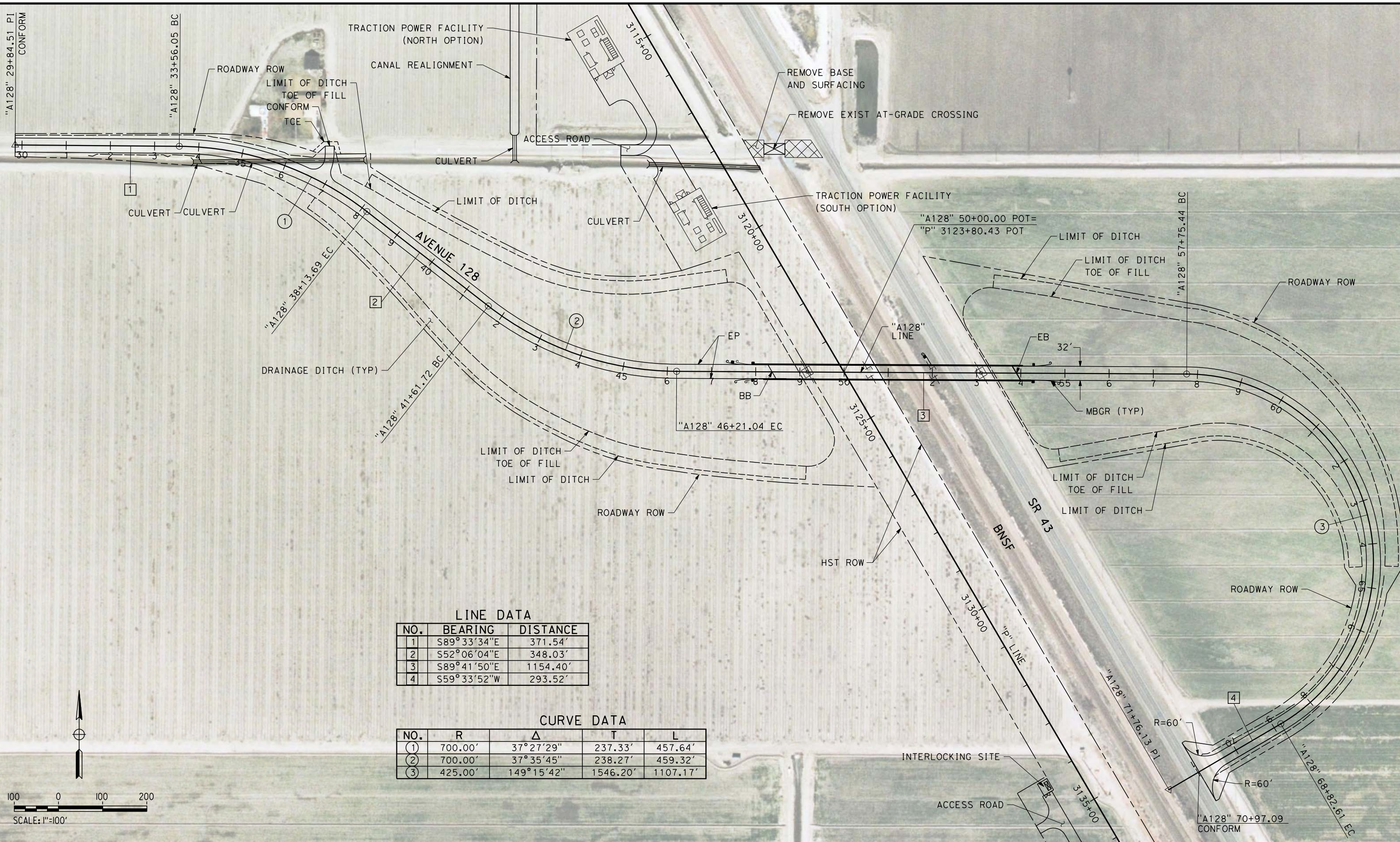


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

PIXLEY SUBSECTION
ALIGNMENT P
ROADWAY/GRADE SEPARATION
KEY MAP

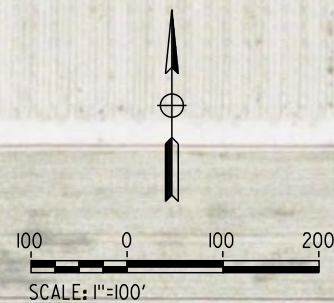
CONTRACT NO. HSR 06-0003
DRAWING NO. CB0100
SCALE AS SHOWN
SHEET NO. 1 OF 16

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LINE DATA		
NO.	BEARING	DISTANCE
1	S89°33'34"E	371.54'
2	S52°06'04"E	348.03'
3	S89°41'50"E	1154.40'
4	S59°33'52"W	293.52'

CURVE DATA				
NO.	R	Δ	T	L
1	700.00'	37°27'29"	237.33'	457.64'
2	700.00'	37°35'45"	238.27'	459.32'
3	425.00'	149°15'42"	1546.20'	1107.17'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY V. ORTEGA
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



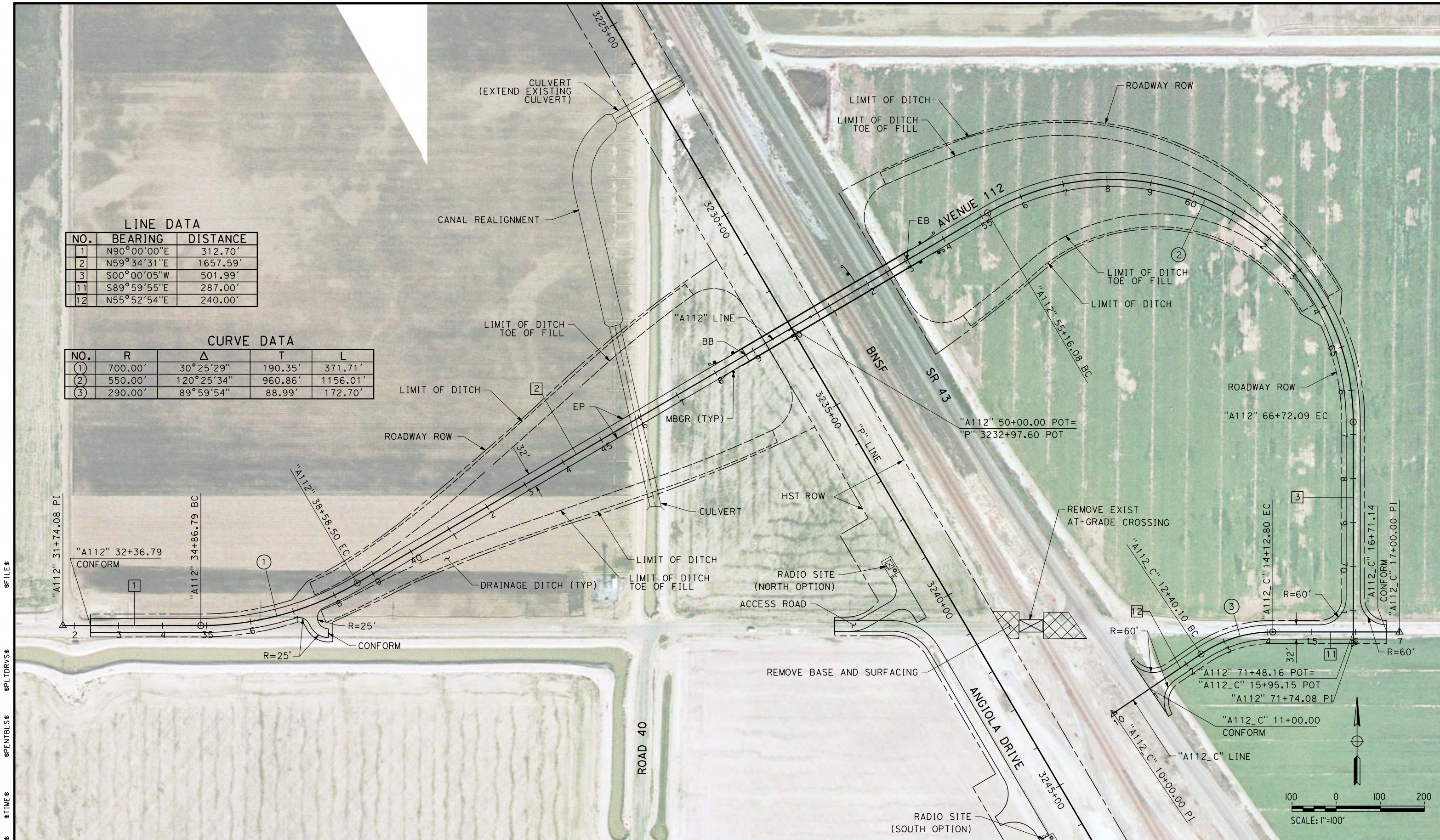
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION LAYOUT
AVE 128

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1401
SCALE AS SHOWN
SHEET NO. 2 OF 16

LINE DATA		
NO.	BEARING	DISTANCE
1	N90°00'00"E	312.70'
2	N59°34'31"E	1657.59'
3	S00°00'05"W	501.99'
11	S89°59'55"E	287.00'
12	N55°52'54"E	240.00'

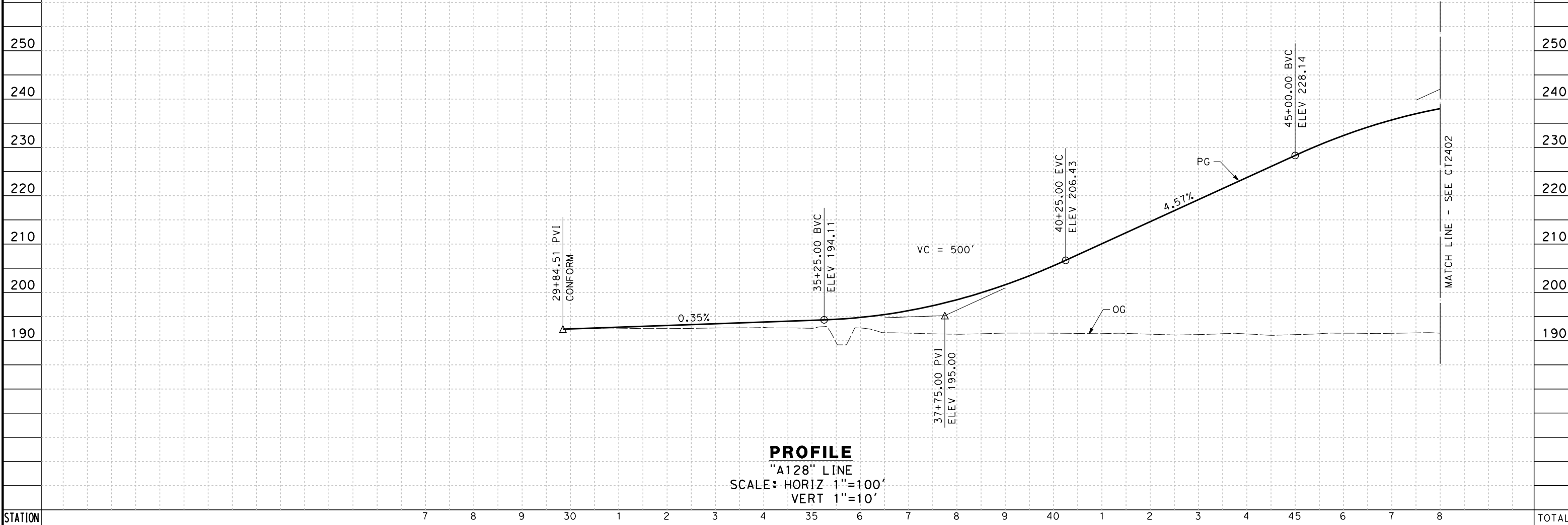
CURVE DATA				
NO.	R	Δ	T	L
①	700.00'	30°25'29"	190.35'	371.71'
②	550.00'	120°25'34"	960.86'	1156.01'
③	290.00'	89°59'54"	88.99'	172.70'



<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;">REV</td> <td style="width:10%;">DATE</td> <td style="width:10%;">BY</td> <td style="width:10%;">CHK</td> <td style="width:10%;">APP</td> <td style="width:50%;">DESCRIPTION</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table>					REV	DATE	BY	CHK	APP	DESCRIPTION																									<div style="font-size: 8px;"> DESIGNED BY I. JOSIFEK DRAWN BY V. ORTEGA CHECKED BY T. CLIFFORD IN CHARGE R. COFFIN DATE 12/31/13 </div>		<div style="font-weight: bold; font-size: 10px;">RECORD SET 15% DESIGN SUBMISSION</div> <div style="font-weight: bold; font-size: 10px;">NOT FOR CONSTRUCTION</div>		 		<div style="font-weight: bold; font-size: 12px;">CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD</div> <div style="font-weight: bold; font-size: 10px;">PIXLEY SUBSECTION ALIGNMENT P GRADE SEPARATION LAYOUT AVE 112</div>		<div style="font-size: 8px;"> CONTRACT NO. HSR 06-0003 DRAWING NO. CT1421 SCALE AS SHOWN SHEET NO. 4 OF 16 </div>	
REV	DATE	BY	CHK	APP	DESCRIPTION																																							

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- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 - 2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
 - 3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



STATION		7	8	9	30	1	2	3	4	35	6	7	8	9	40	1	2	3	4	45	6	7	8	TOTAL
CY	Exc																							
	Emb																							

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
V. ORTEGA
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

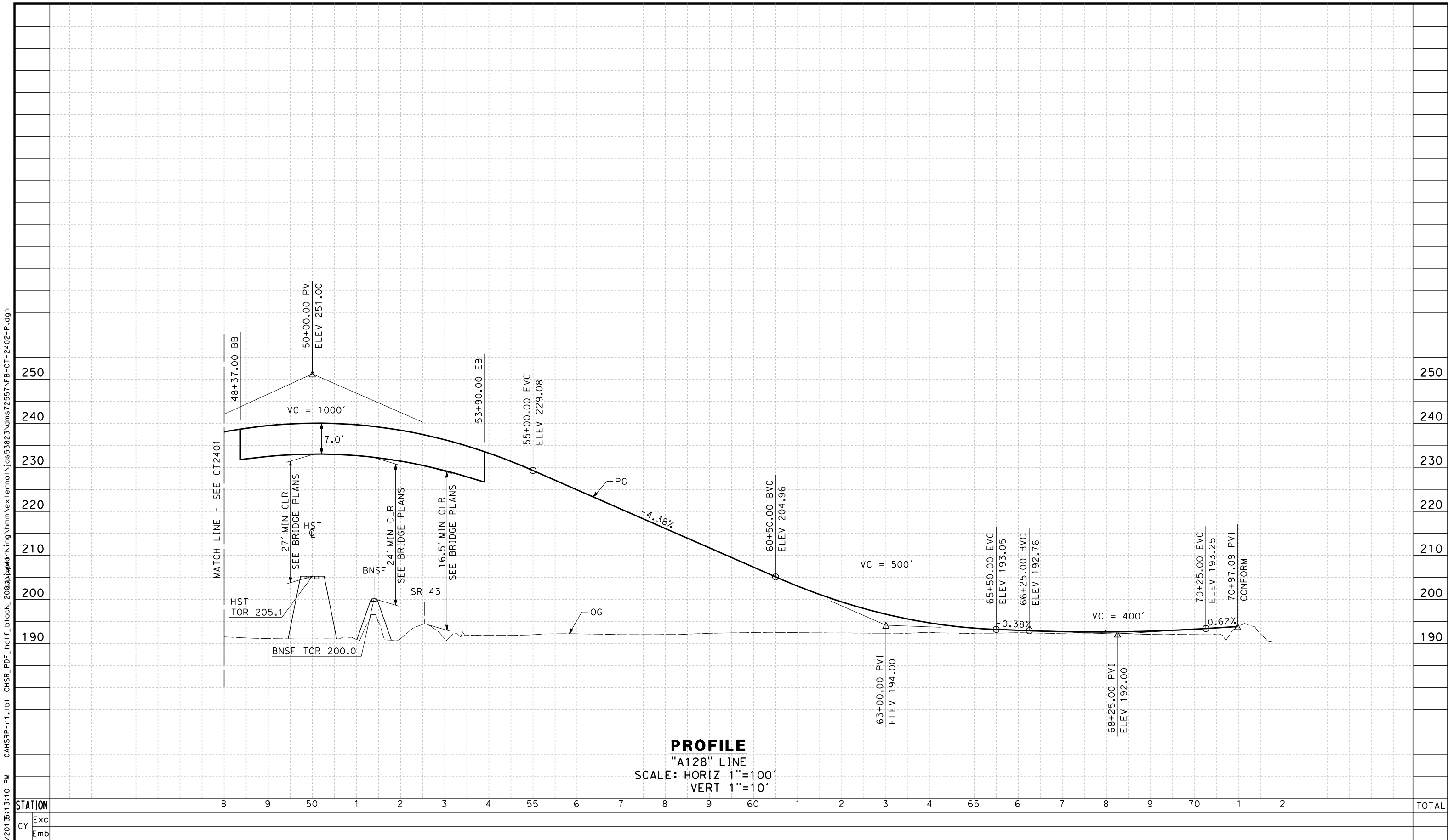
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 128

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2401
SCALE
AS SHOWN
SHEET NO.
6 OF 16

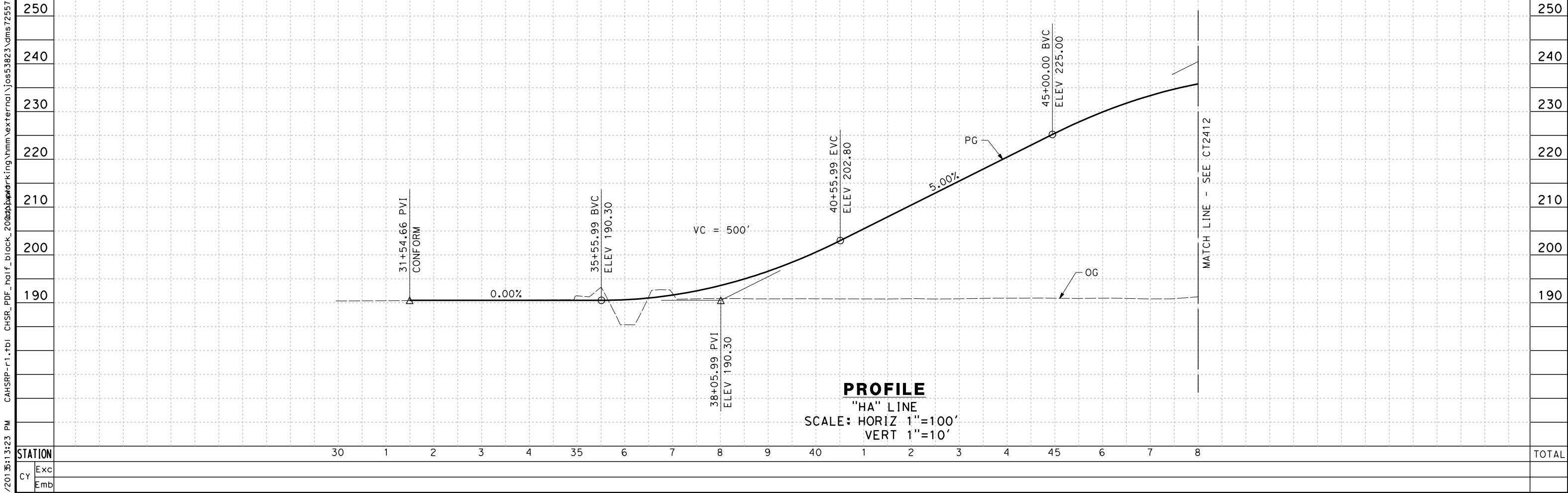
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DESIGNED BY I. JOSIFEK						RECORD SET 15% DESIGN SUBMISSION						CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD						CONTRACT NO. HSR 06-0003					
DRAWN BY V. ORTEGA						NOT FOR CONSTRUCTION						PIXLEY SUBSECTION ALIGNMENT P						DRAWING NO. CT2402					
CHECKED BY T. CLIFFORD												GRADE SEPARATION PROFILE AVE 128						SCALE AS SHOWN					
IN CHARGE R. COFFIN																		SHEET NO. 7 OF 16					
DATE 12/31/13																							
REV	DATE	BY	CHK	APP	DESCRIPTION																		

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- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 - 2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
 - 3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



12/31/13

JOS53823

						DESIGNED BY I. JOSIFEK
						DRAWN BY V. ORTEGA
						CHECKED BY T. CLIFFORD
						IN CHARGE R. COFFIN
						DATE 12/31/13
REV	DATE	BY	CHK	APP	DESCRIPTION	

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION

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HMM

ARUP

CALIFORNIA HIGH-SPEED TRAIN

CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
HESSE AVE

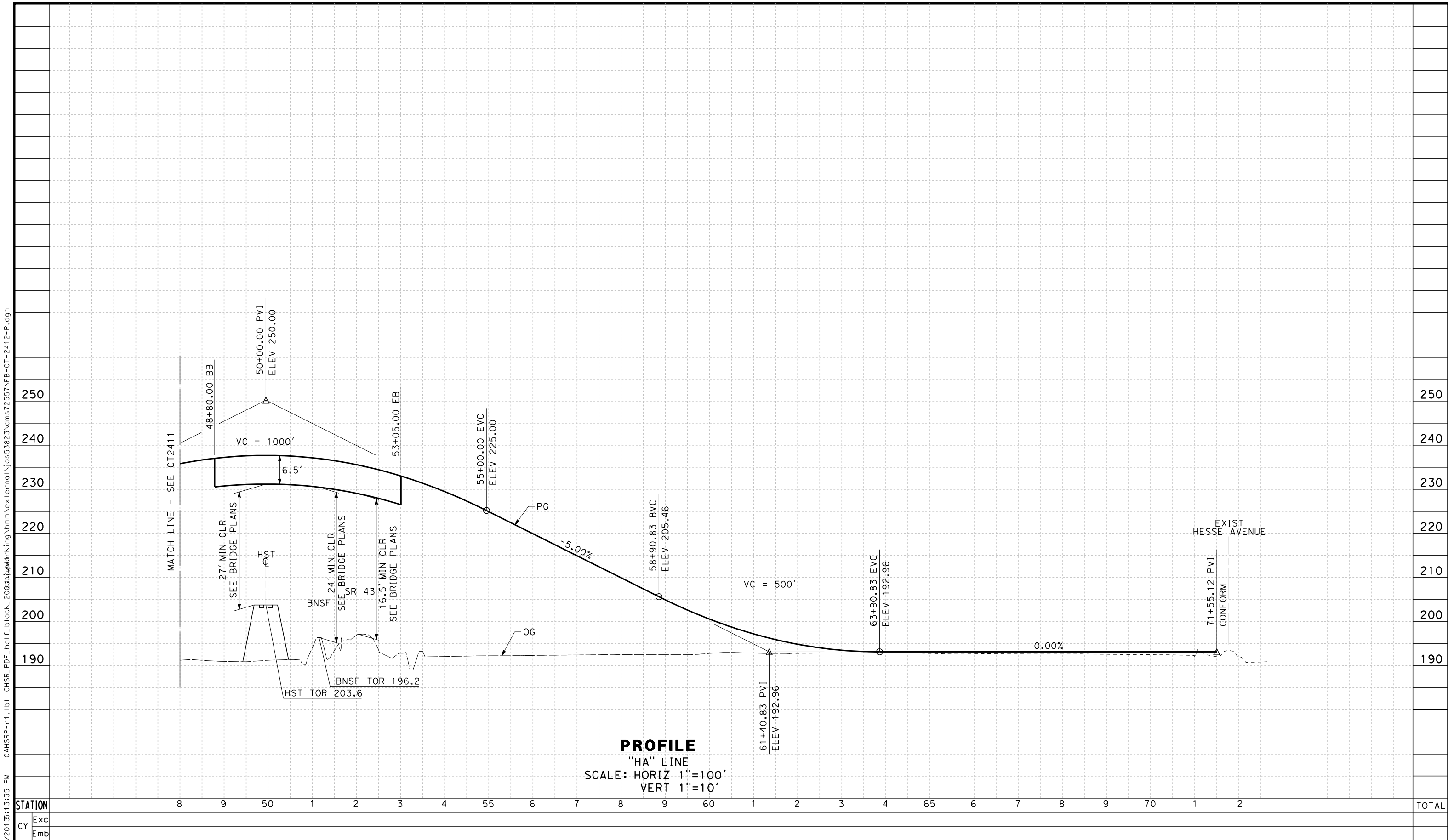
CONTRACT NO.
HSR 06-0003



DRAWING NO.
CT2411

SCALE
AS SHOWN

SHEET NO.
8 OF 16

12/30/2013 1:31:35 PM CAHSR-r1.tbl CHSR_PDF_half_black.ctb \\jos53823\dms72557\FB-CT-2412-P.dgn



JOS553823							DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION	 CALIFORNIA HIGH-SPEED TRAIN	 <i>CALIFORNIA</i> HIGH-SPEED RAIL AUTHORITY	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD PIXLEY SUBSECTION ALIGNMENT P GRADE SEPARATION PROFILE HESSE AVE				CONTRACT NO.	
							DRAWN BY V. ORTEGA								DRAWING NO. CT2412	
							CHECKED BY T. CLIFFORD								SCALE AS SHOWN	
							IN CHARGE R. COFFIN								SHEET NO. 9 OF 16	
							DATE 12/31/13									
REV	DATE	BY	CHK	APP	DESCRIPTION											

J0553823 12/30/2013 1:31:50 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\jos53823\dms72557\FB-CT-2421-P.dgn

- NOTES:
- 1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 - 2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
 - 3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.

250

240

230

220

210

200

190

STATION

CY Exc
Emb

REV

DATE

BY

CHK

APP

DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
V. ORTEGA
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

RECORD SET 15%
DESIGN SUBMISSION
-
NOT FOR
CONSTRUCTION



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 112

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2421
SCALE
AS SHOWN
SHEET NO.
10 OF 16

250

240

230

220

210

200

190

TOTAL

32+36.79 PVI
CONFORM

35+69.79 BVC
ELEV 188.20

VC = 500'

38+19.79 PVI
ELEV 188.20

40+69.79 EVC
ELEV 200.70

5.00%

PG

OG

45+00.00 BVC
ELEV 222.21

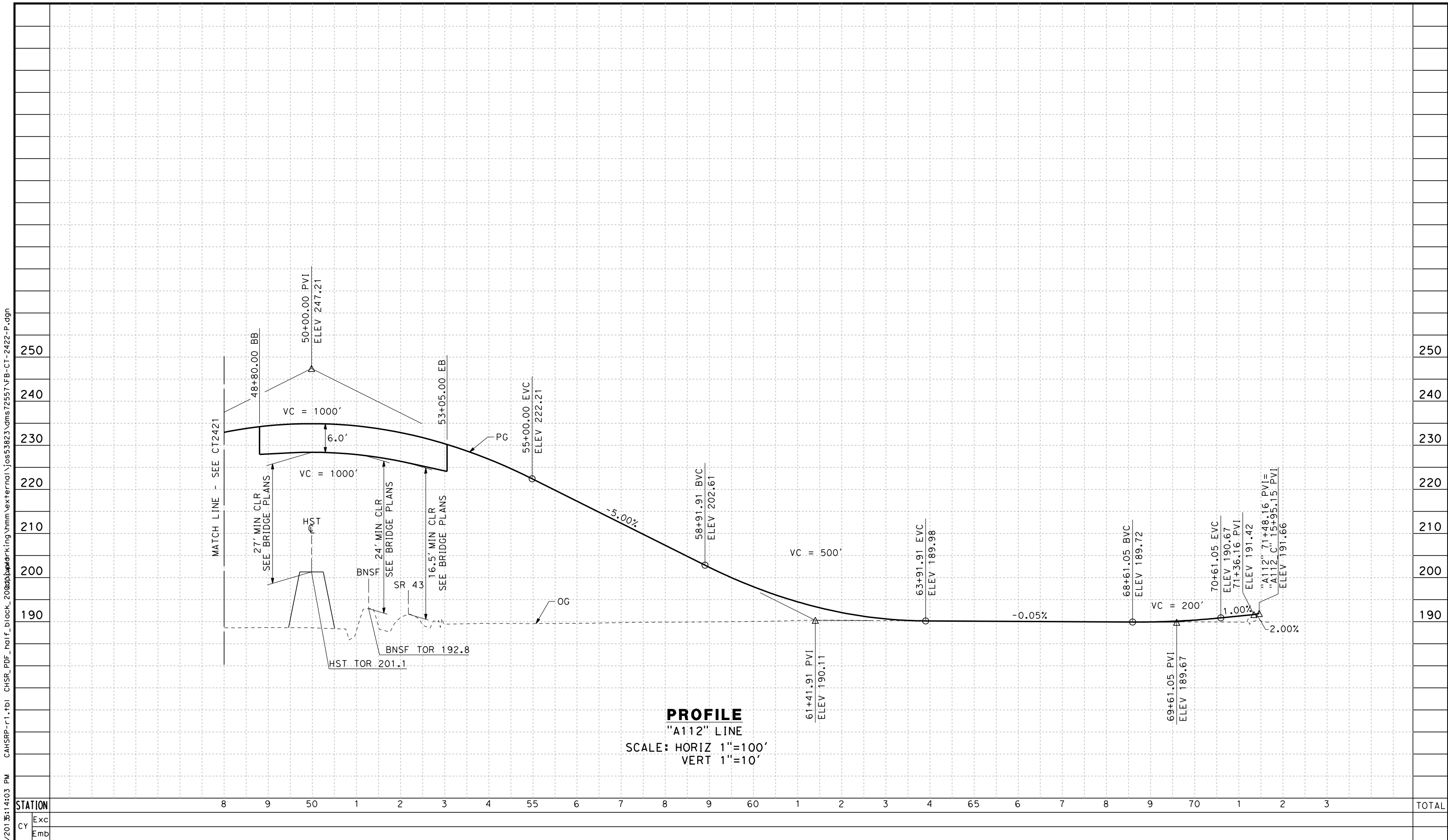
MATCH LINE - SEE CT2422

PROFILE

"A112" LINE

SCALE: HORIZ 1"=100'
VERT 1"=10'

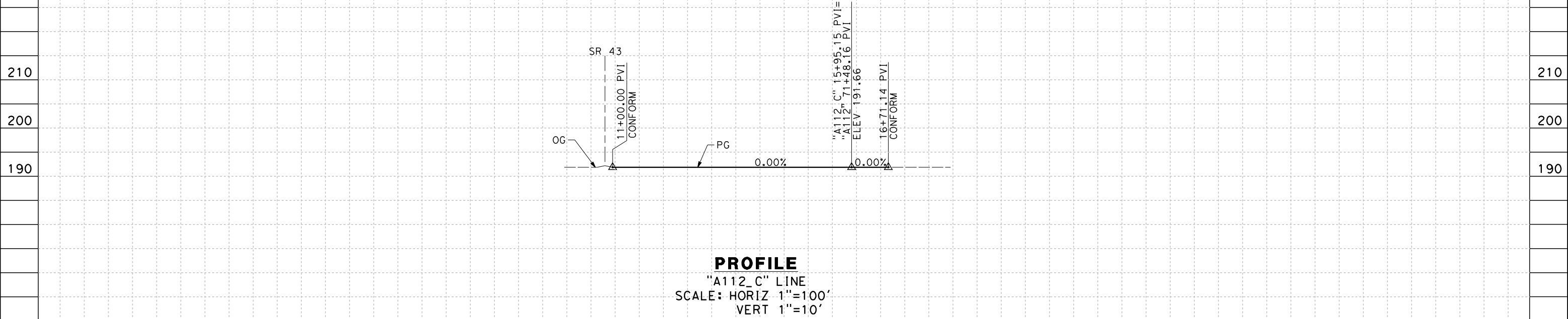
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DESIGNED BY I. JOSIFEK						RECORD SET 15% DESIGN SUBMISSION						NOT FOR CONSTRUCTION						CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD						CONTRACT NO. HSR 06-0003					
DRAWN BY V. ORTEGA						CHECKED BY T. CLIFFORD						IN CHARGE R. COFFIN						PIXLEY SUBSECTION ALIGNMENT P						DRAWING NO. CT2422					
DATE 12/31/13						SCALE AS SHOWN						SHEET NO. 11 OF 16						GRADE SEPARATION PROFILE AVE 112											
REV						DATE						BY						CHK						APP					
DESCRIPTION																													

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NOTES:
1. SEE SHEET CT1421 FOR LAYOUT VIEW



STATION		10	1	2	3	4	15	6	7	8	TOTAL
CY	Exc										
	Emb										

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
V. ORTEGA
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

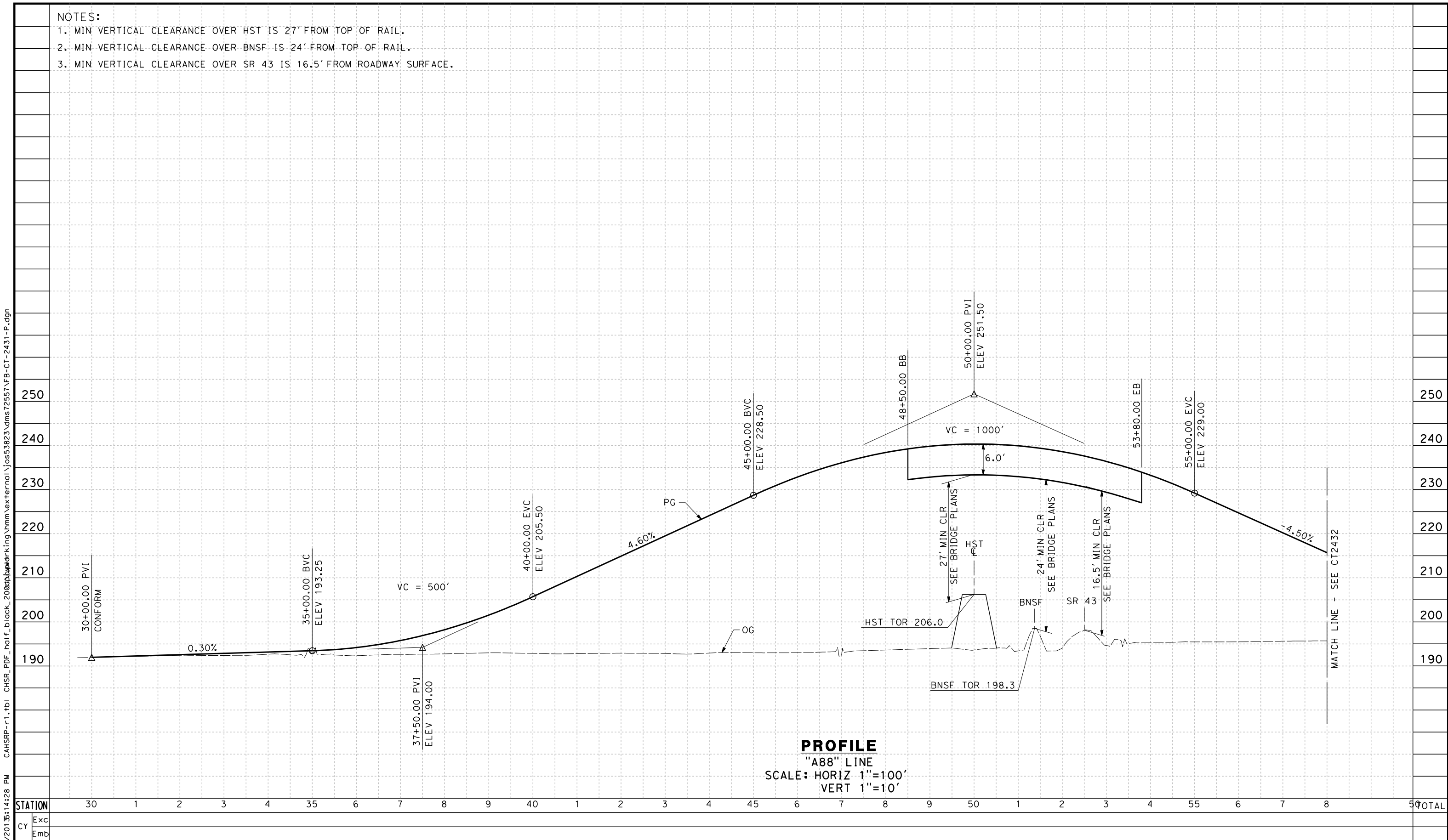


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 112 CONNECTOR

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2423
SCALE
AS SHOWN
SHEET NO.
12 OF 16

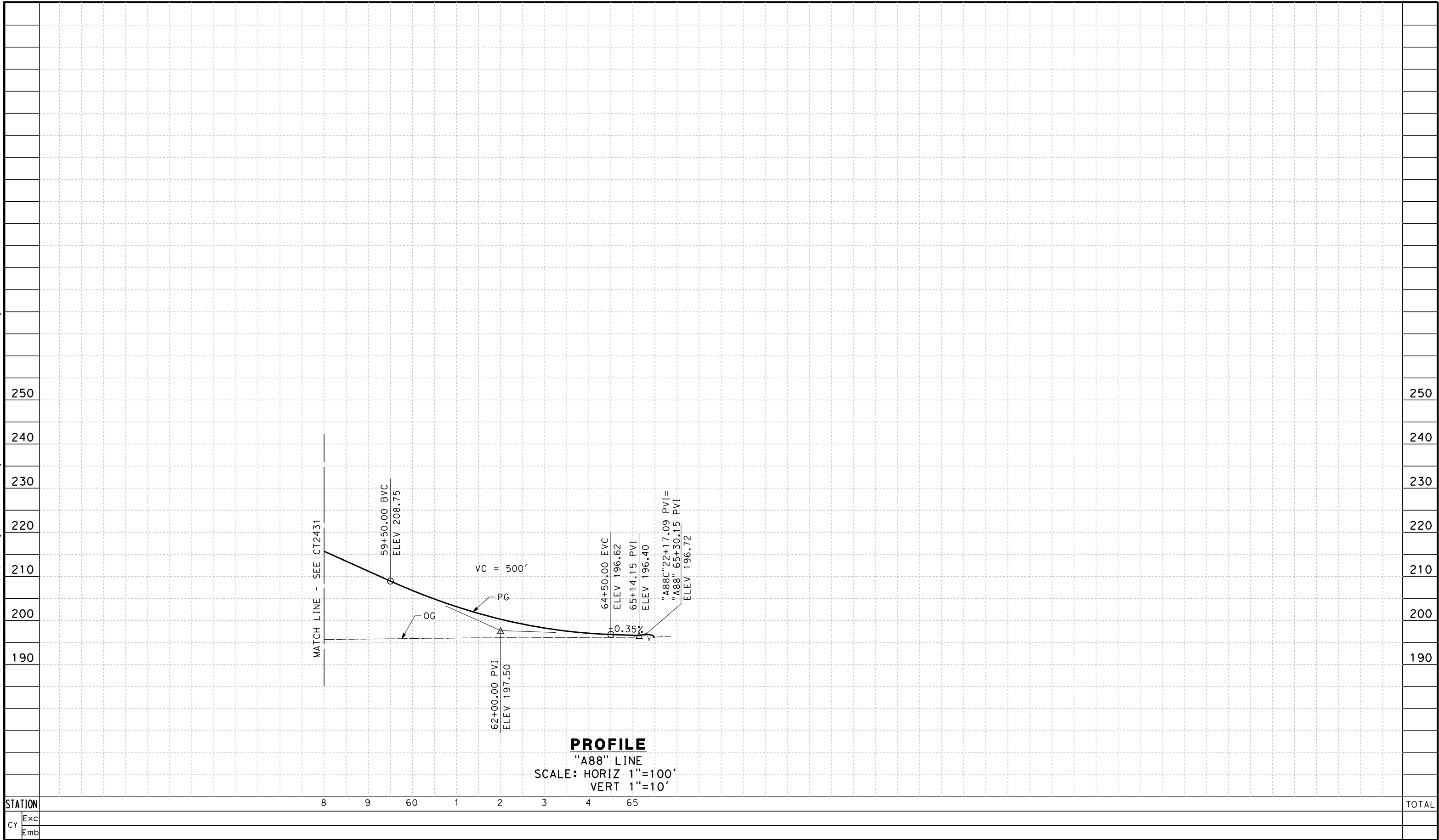
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- NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. MIN VERTICAL CLEARANCE OVER BNSF IS 24' FROM TOP OF RAIL.
 3. MIN VERTICAL CLEARANCE OVER SR 43 IS 16.5' FROM ROADWAY SURFACE.



JOS53823																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY V. ORTEGA
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



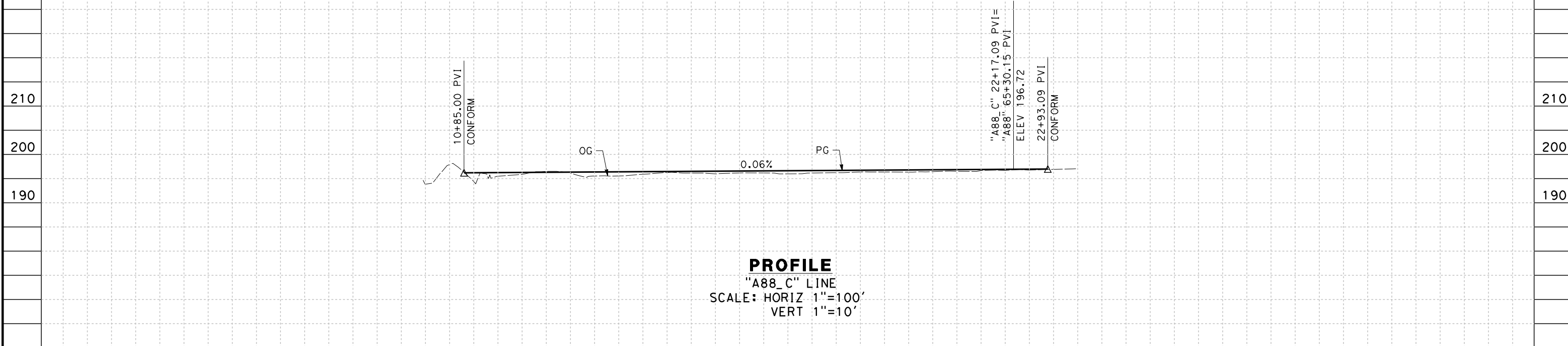
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 88

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2432
SCALE AS SHOWN
SHEET NO. 14 OF 16

J0553823 12/30/2013 1:14:53 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\jos53823\dms72557\FB-CT-2433-P.dgn

NOTES:
1. SEE SHEET CT1431 FOR LAYOUT VIEW



STATION		10	1	2	3	4	15	6	7	8	9	20	1	2	3	4	25	TOTAL
CY	Exc																	
	Emb																	

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
V. ORTEGA
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
PIXLEY SUBSECTION
ALIGNMENT P
GRADE SEPARATION PROFILE
AVE 88 CONNECTOR

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2433
SCALE
AS SHOWN
SHEET NO.
15 OF 16

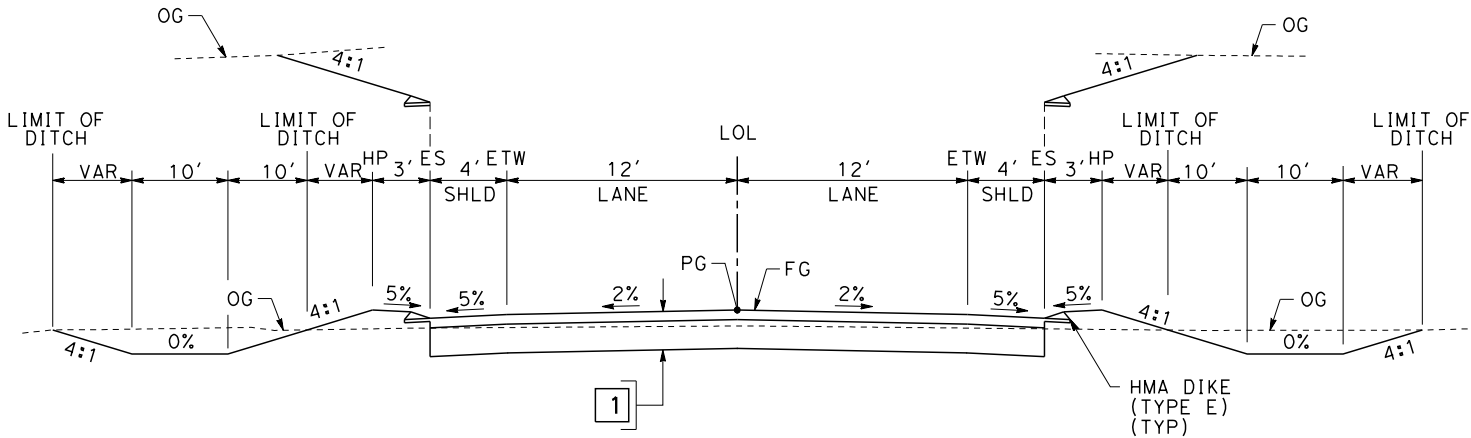
- NOTES:
- 1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 - 2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

STRUCTURAL SECTIONS

TYPICAL ROADWAY

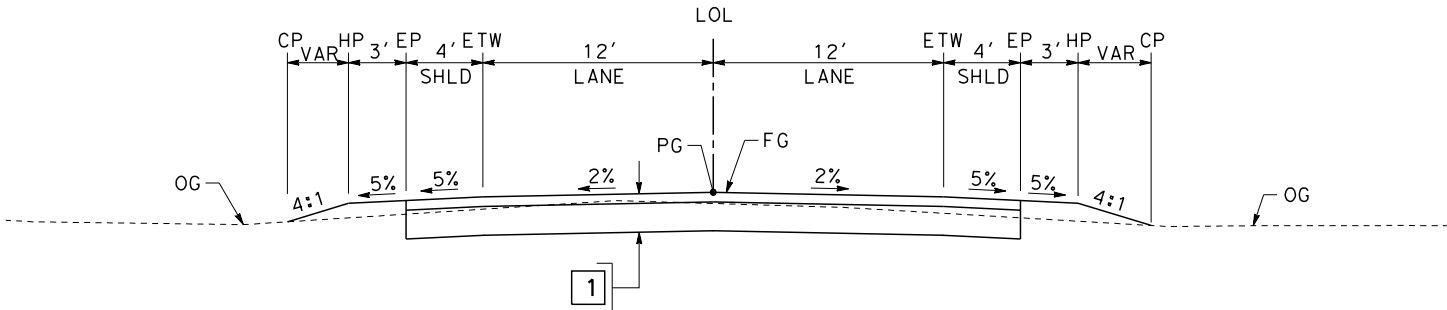
- 1
- 0.30' HMA (TYPE A)

1.40' CL 2 AB



SECTION A

- "A128" 37+00.00 TO 48+37.00
- "A128" 53+90.00 TO 64+50.00
- "HA" 37+76.00 TO 48+80.00
- "HA" 53+05.00 TO 63+60.00
- "A112" 37+50.00 TO 48+80.00
- "A112" 53+05.00 TO 63+85.00
- "A88" 37+55.00 TO 48+50.00
- "A88" 53+80.00 TO 64+60.00



SECTION B

- "A128" 29+84.51 TO 37+00.00
- "A128" 64+50.00 TO 71+01.17
- "HA" 31+54.66 TO 37+76.00
- "HA" 63+60.00 TO 71+55.12
- "A112" 32+36.79 TO 37+50.00
- "A112" 63+85.00 TO 71+48.16
- "A112_C" 11+00.00 TO 16+71.14
- "A88" 30+00.00 TO 37+55.00
- "A88" 64+60.00 TO 65+30.15
- "A88_C" 10+85.00 TO 22+93.09

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA/JURISDICTION
AVE 128	A128	50(40*)	AASHTO/TULARE COUNTY
HESSE AVE	HA	50(45*)	AASHTO/TULARE COUNTY
AVE 112	A112	50(45*)	AASHTO/TULARE COUNTY
AVE 88	A88	50(40*)	AASHTO/TULARE COUNTY
AVE 112 CONNECTOR	A112_C	40	AASHTO/TULARE COUNTY
AVE 88 CONNECTOR	A88_C	40	AASHTO/TULARE COUNTY

* WILL REQUIRE REDUCED DESIGN SPEED AT HORIZONTAL CURVE PRIOR TO STOP CONDITION

DESIGNED BY
I. JOSIFEK
DRAWN BY
V. ORTEGA
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

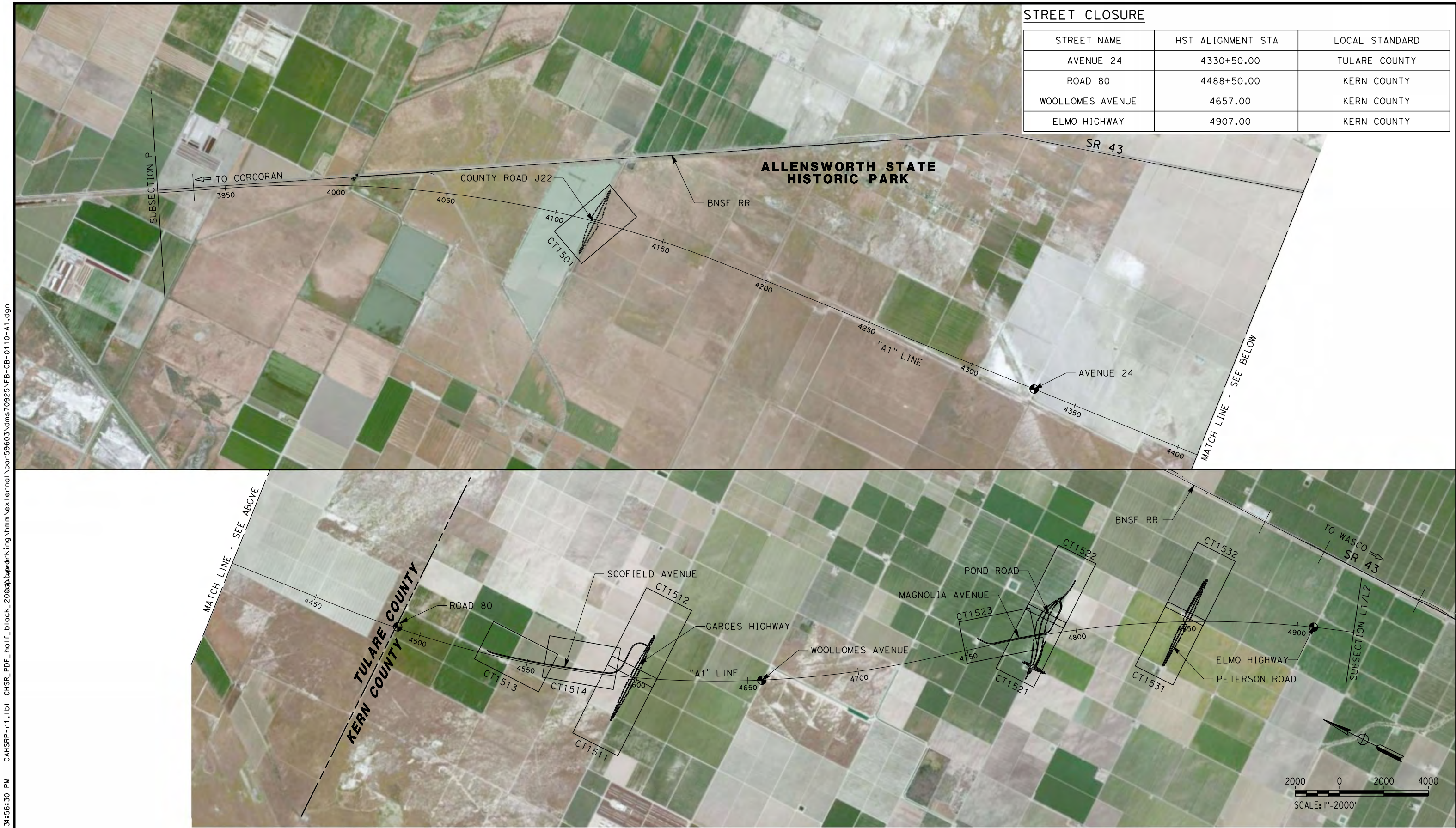
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION





CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
PIXLEY SUBSECTION
ALIGNMENT P
ROADWAY/GRADE SEPARATION
TYPICAL CROSS SECTIONS

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT3060
SCALE
AS SHOWN
SHEET NO.
16 OF 16

12/30/2013 4:56:30 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\external\bar59603\FB-CB-0110-A1.dgn



12/31 BAR59603						DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ALLENSWORTH BYPASS SUBSECTION ALIGNMENT A1 ROADWAY/GRADE SEPARATION KEY MAP	CONTRACT NO. HSR 06-0003
						DRAWN BY P. BARBER				DRAWING NO. CB0110
						CHECKED BY T. CLIFFORD				SCALE AS SHOWN
						IN CHARGE R. COFFIN				SHEET NO. 1 OF 24
						DATE 12/31/13				
REV	DATE	BY	CHK	APP	DESCRIPTION					

12/30/2013 11:59:32 AM CAHSR-r1.tbl CHSR_PDF_half_black.plt c:\pwworking\hmm\external\bar50597\dms70925\FB-CT-1501-A1.dgn

BAR50597



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

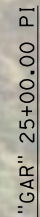
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
COUNTY RD J22

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1501
SCALE
AS SHOWN
SHEET NO.
2 OF 24



No.	BEARING	DISTANCE
1	S88°50'48"E	5000.00'

NO.	R	Δ	T	L
(3)	700.00'	69°31'26"	485.82'	849.40'

REV	DATE	BY	CHK	APP
-----	------	----	-----	-----

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

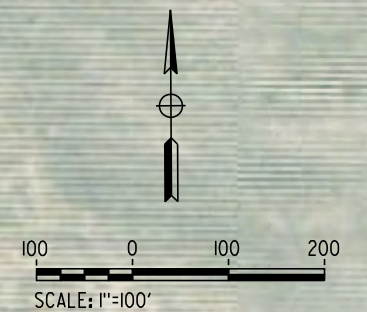
**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
GARCES HWY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1511
SCALE	AS SHOWN
SHEET NO.	3 OF 24



LINE DATA			
No.		BEARING	DISTANCE
	1	S88°50'48"E	5000.00'
	5	S89°06'19"E	826.95'
	6	S01°09'38"W	235.53'

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

URS | HMM | ARUP

CALIFORNIA HIGH-SPEED TRAIN

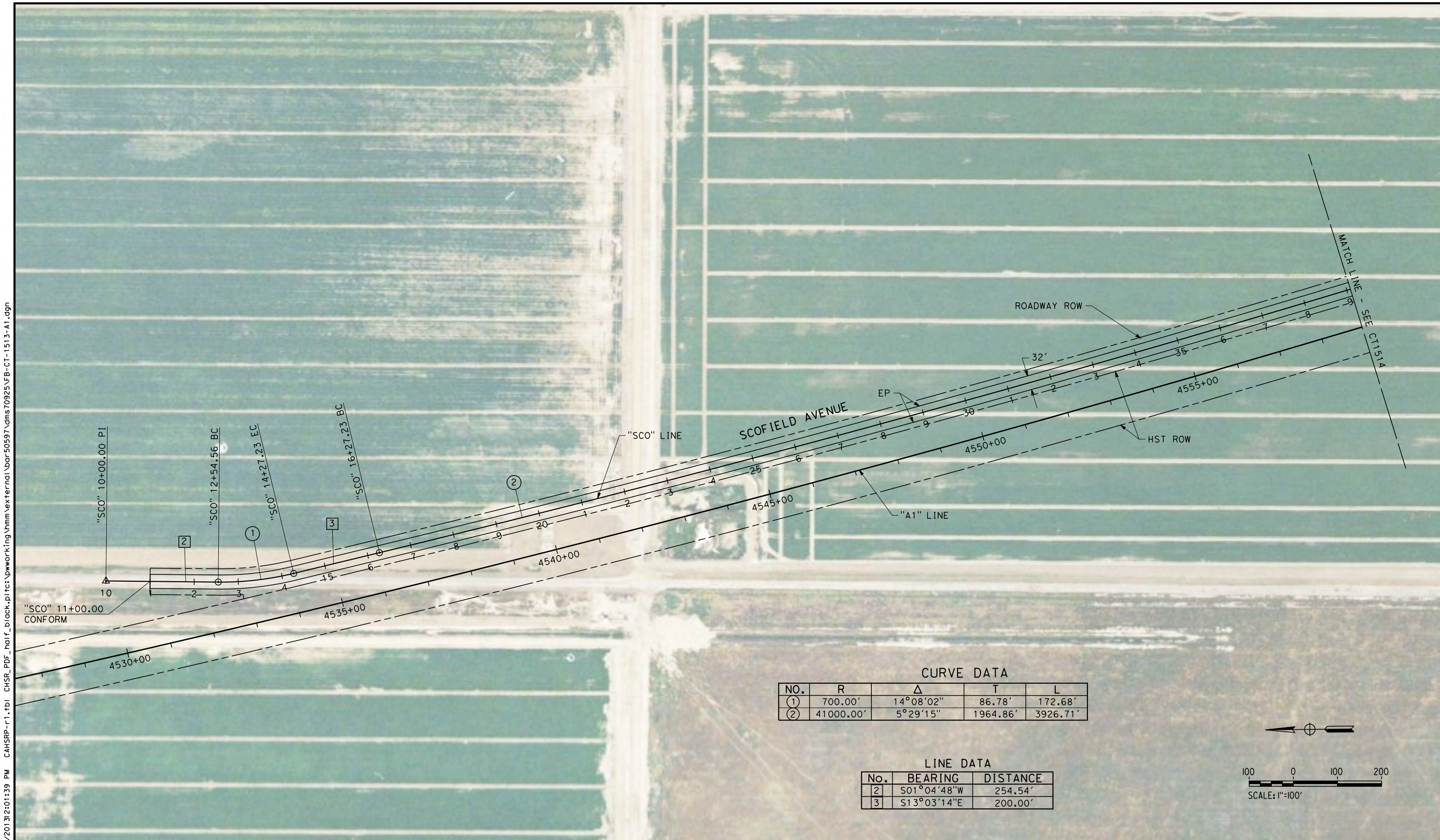


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
GARCES HWY

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT1512
SCALE	AS SHOWN
SHEET NO.	4 OF 24

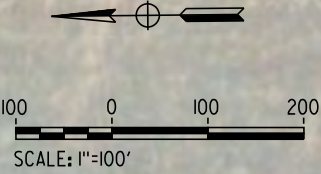
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BAR50597



CURVE DATA				
NO.	R	Δ	T	L
①	700.00'	14°08'02"	86.78'	172.68'
②	41000.00'	5°29'15"	1964.86'	3926.71'

LINE DATA		
No.	BEARING	DISTANCE
2	S01°04'48"W	254.54'
3	S13°03'14"E	200.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
SCOFIELD AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1513
SCALE
AS SHOWN
SHEET NO.
5 OF 24

12/30/2013 12:02:36 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt c:\pwworking\hmm\external\bar50597\dms70925\FB-CT-1514-A1.dgn

BAR50597



CURVE DATA				
NO.	R	Δ	T	L
②	41000.00'	5°29'15"	1964.86'	3926.71'
③	700.00'	69°31'26"	485.81'	849.40'

LINE DATA		
NO.	BEARING	DISTANCE
4	S18°32'29"E	1072.86'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



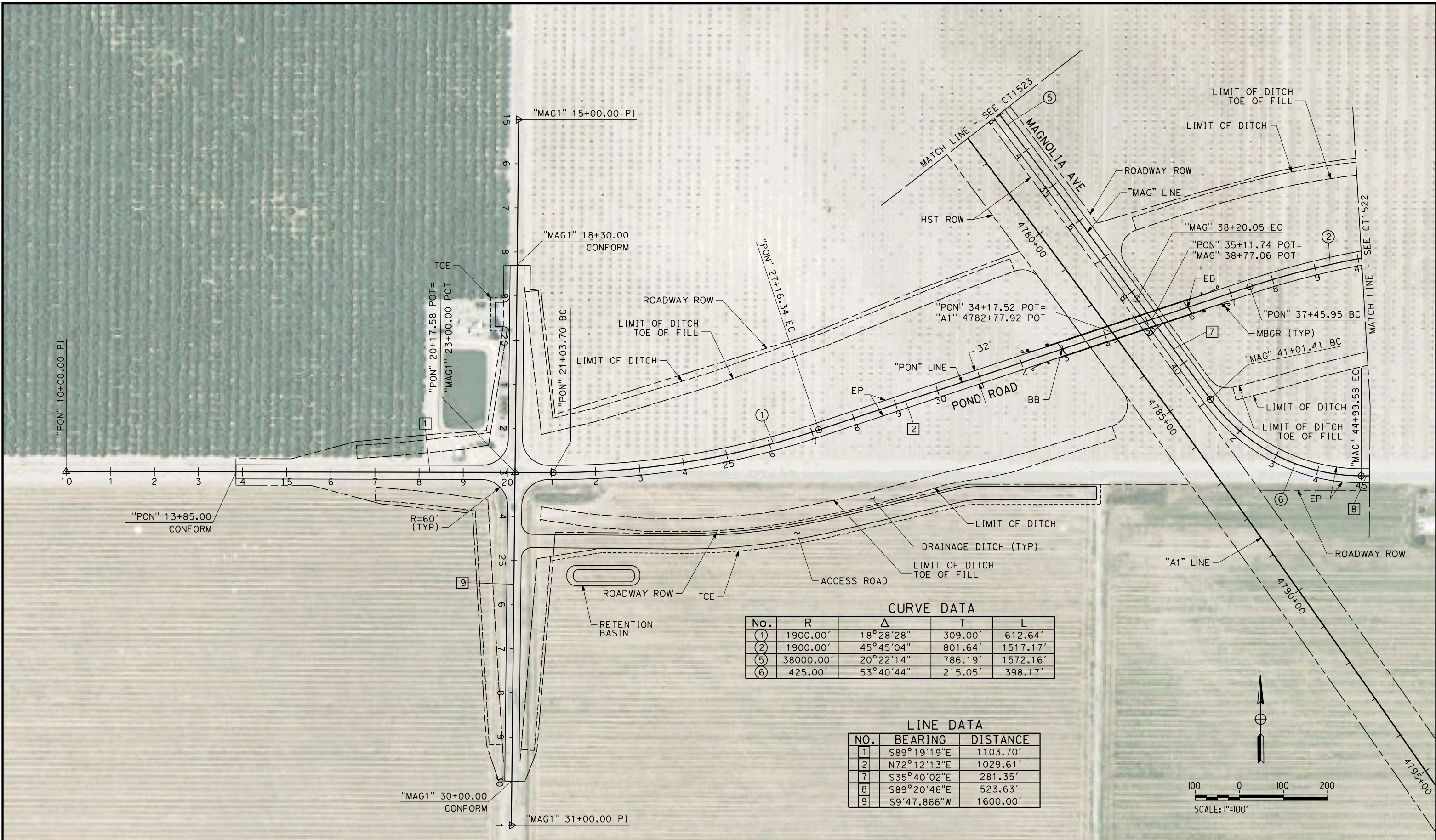
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
SCOFIELD AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1514
SCALE AS SHOWN
SHEET NO. 6 OF 24

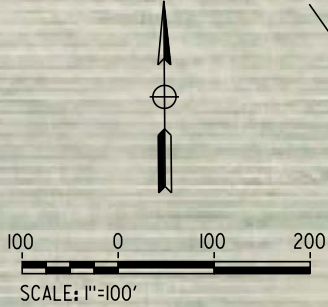
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BAR50597



CURVE DATA				
No.	R	Δ	T	L
(1)	1900.00'	18°28'28"	309.00'	612.64'
(2)	1900.00'	45°45'04"	801.64'	1517.17'
(5)	38000.00'	20°22'14"	786.19'	1572.16'
(6)	425.00'	53°40'44"	215.05'	398.17'

LINE DATA		
NO.	BEARING	DISTANCE
1	S89°19'19"E	1103.70'
2	N72°12'13"E	1029.61'
7	S35°40'02"E	281.35'
8	S89°20'46"E	523.63'
9	S9°47.866"W	1600.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**



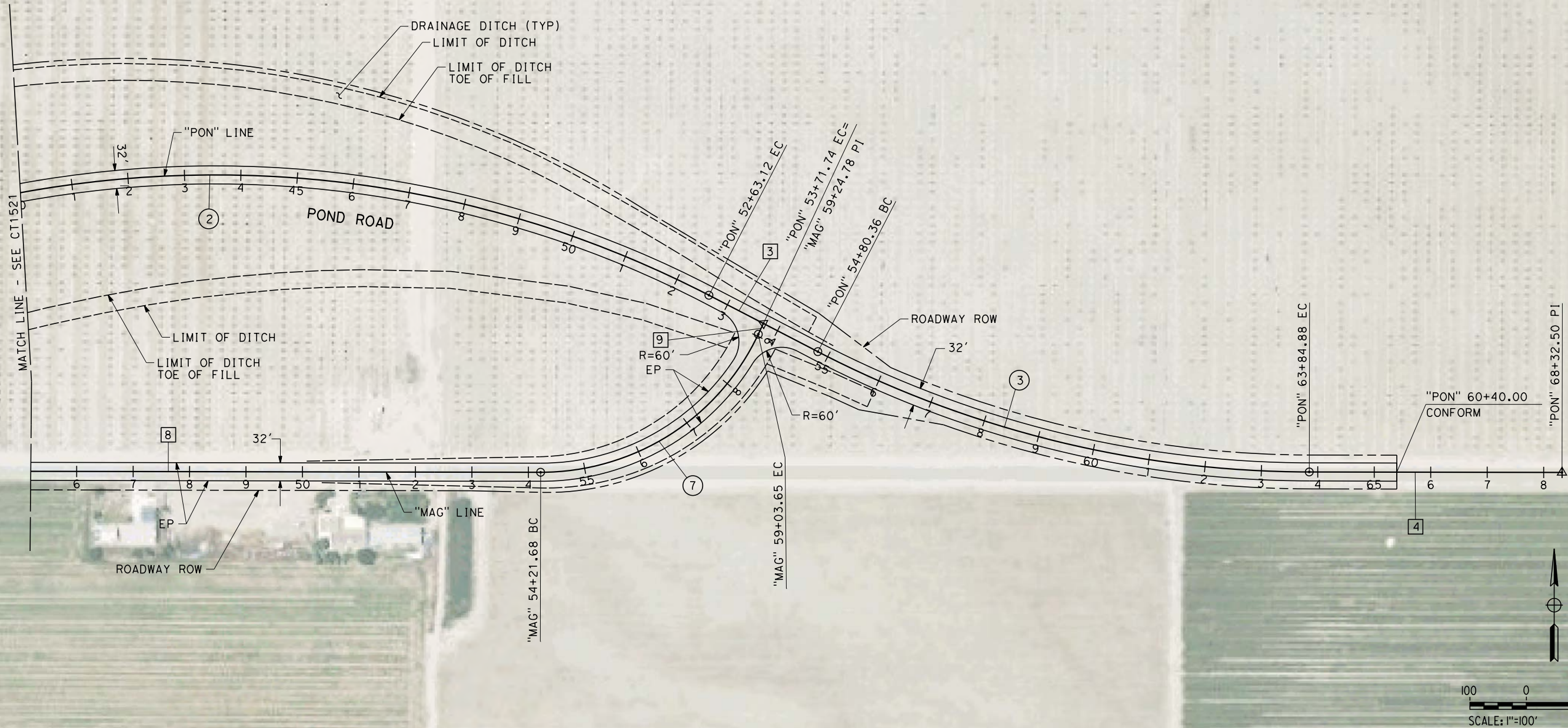
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
POND RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1521
SCALE
AS SHOWN
SHEET NO.
7 OF 24

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LINE DATA		
NO.	BEARING	DISTANCE
3	S64°19'19"E	210.01'
4	S89°19'19"E	447.62'
8	S89°20'46"E	922.11'
9	N25°40'41"E	21.13'

CURVE DATA				
No.	R	Δ	T	L
②	1900.00'	45°45'04"	801.64'	1517.17'
③	1900.00'	27°16'36"	461.00'	904.53'
⑦	425.00'	64°58'33"	270.63'	481.97'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

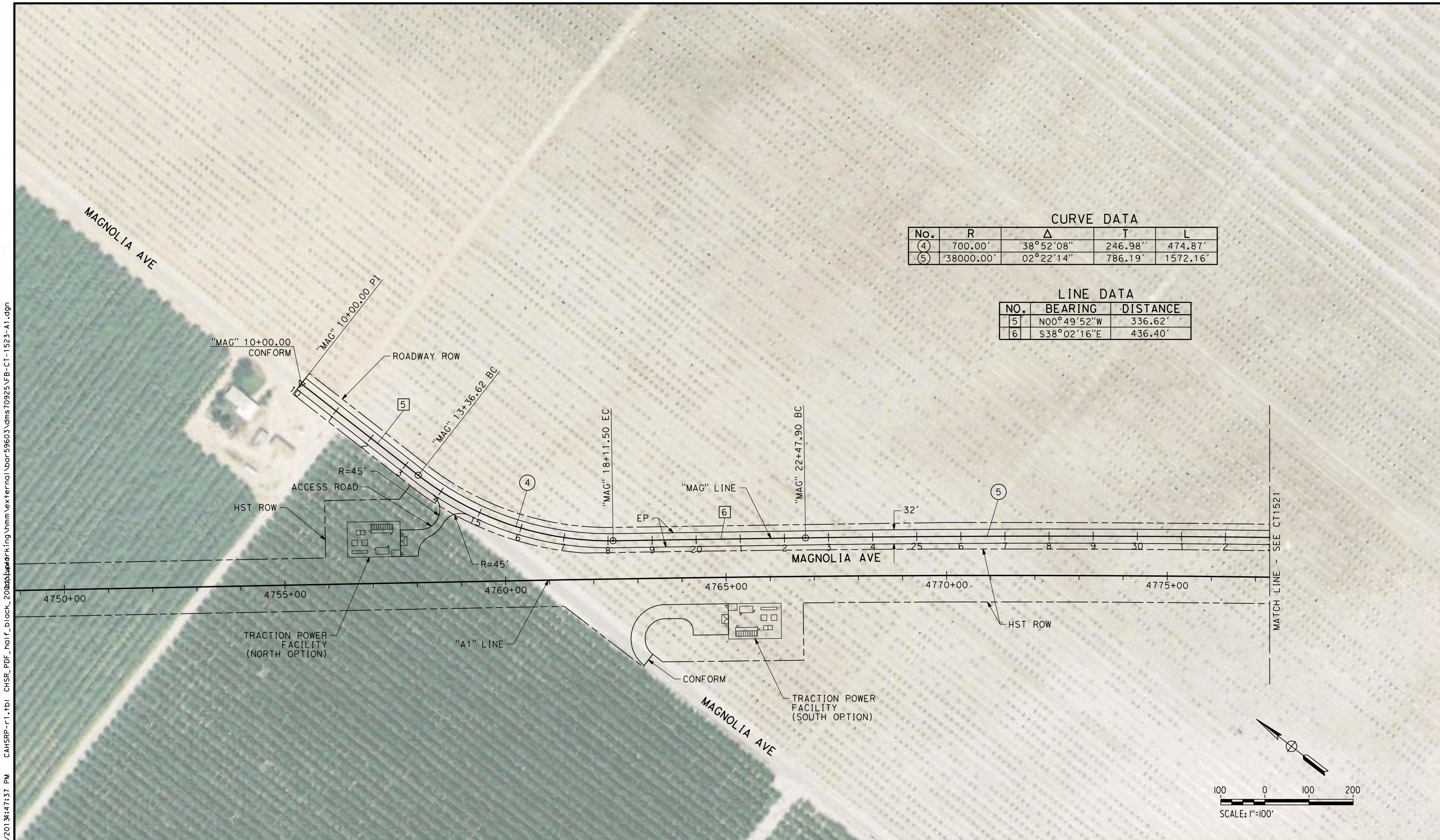
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
POND RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1522
SCALE AS SHOWN
SHEET NO. 8 OF 24

12/30/2013 4:47:37 PM CAHSR-r1.tbl CHSR_PDF_half_black_200dpi.ctb \\bar59603\external\bar59603\FB-CT-1523-A1.dgn



CURVE DATA				
No.	R	Δ	T	L
④	700.00'	38°52'08"	246.98'	474.87'
⑤	38000.00'	02°22'14"	786.19'	1572.16'

LINE DATA		
NO.	BEARING	DISTANCE
5	N00°49'52"W	336.62'
6	S38°02'16"E	436.40'

REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

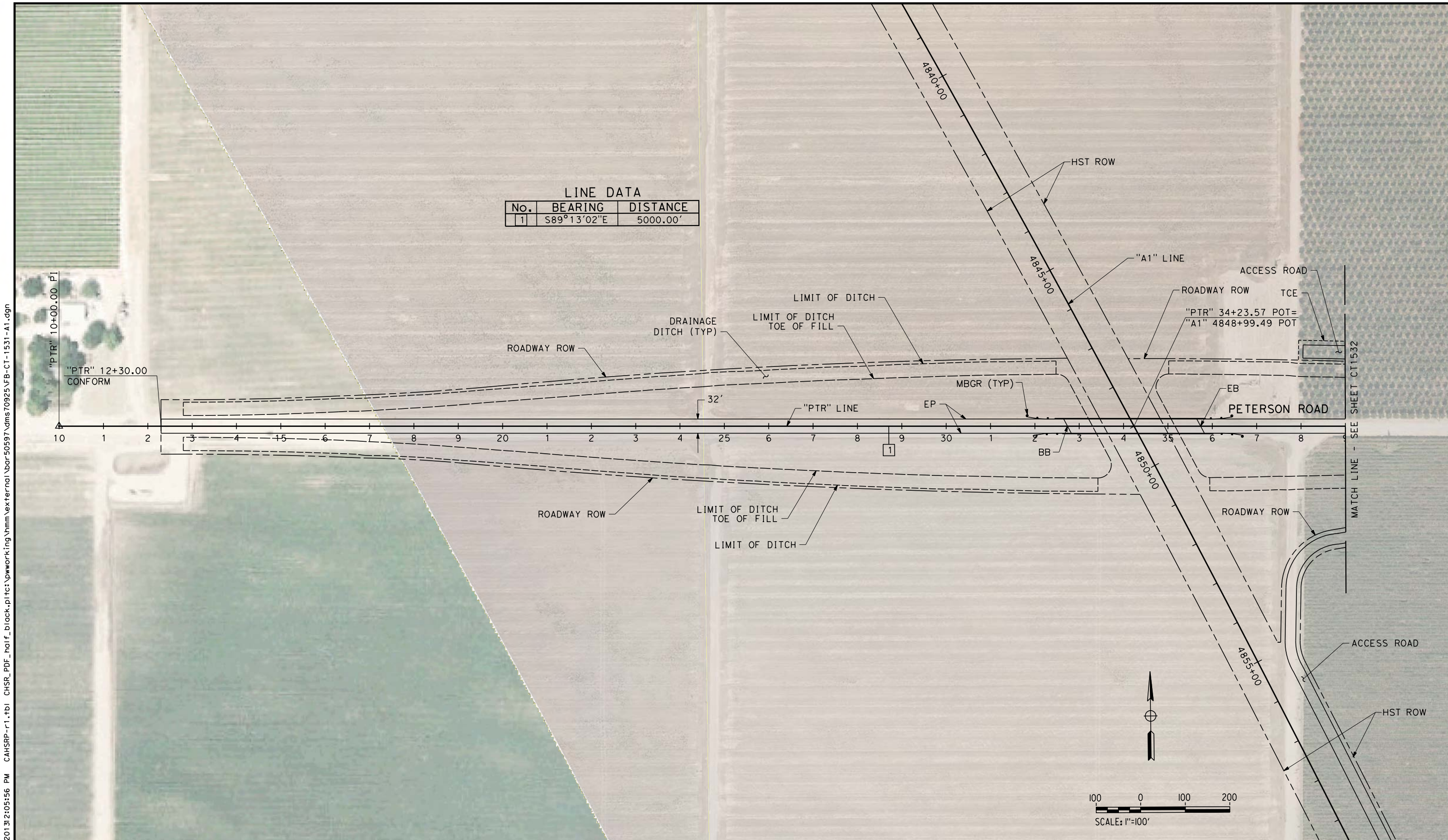
**NOT FOR
CONSTRUCTION**



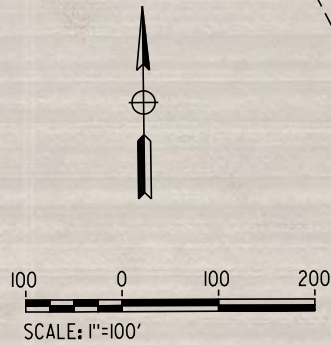
**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
MAGNOLIA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1523
SCALE
AS SHOWN
SHEET NO.
9 OF 24

12/30/2013 12:05:56 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt c:\pwworking\hmm\external\bar50597\dms70925\FB-CT-1531-A1.dgn



LINE DATA		
No.	BEARING	DISTANCE
1	S89°13'02"E	5000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK
DRAWN BY P. BARBER
CHECKED BY T. CLIFFORD
IN CHARGE R. COFFIN
DATE 12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

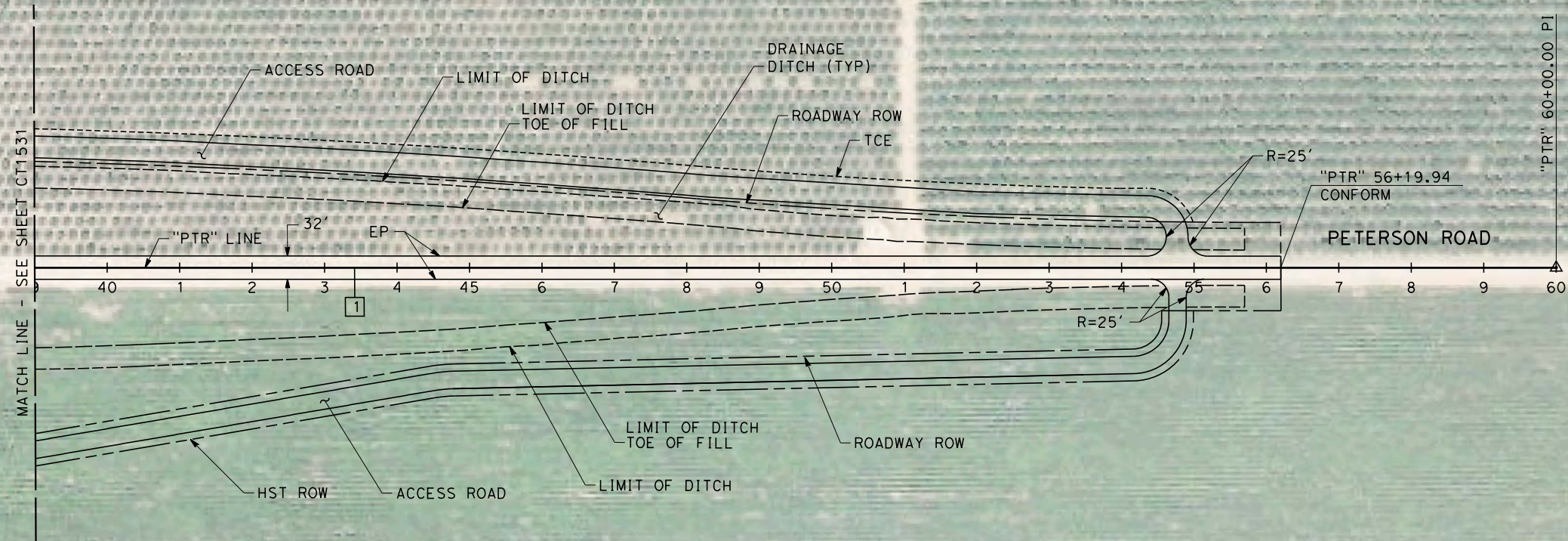


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**

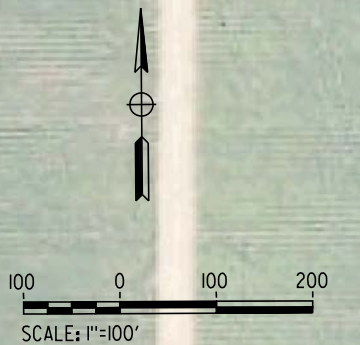
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
PETERSON RD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT1531
SCALE AS SHOWN
SHEET NO. 10 OF 24

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LINE DATA		
No.	BEARING	DISTANCE
1	S89°13'02"E	5000.00'



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

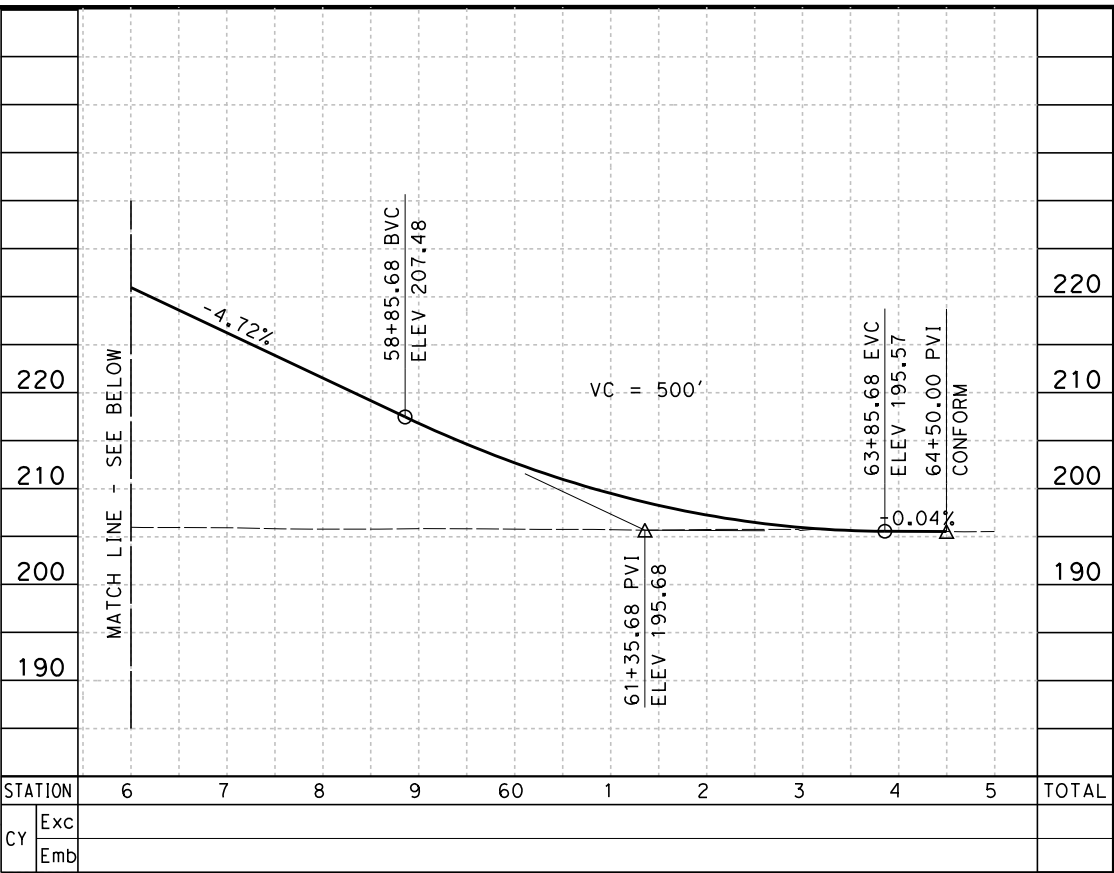
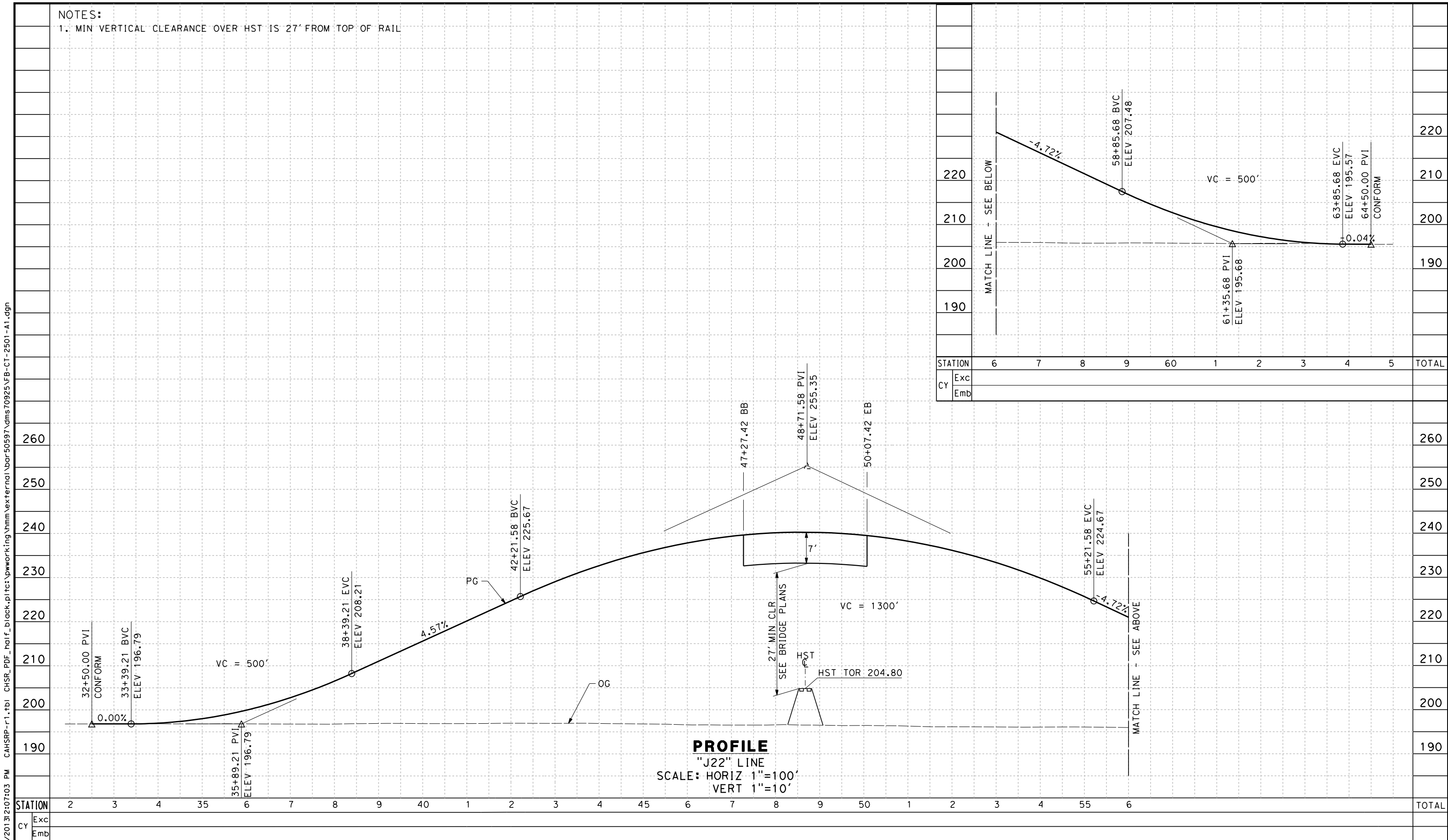


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION LAYOUT
PETERSON RD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT1532
SCALE
AS SHOWN
SHEET NO.
11 OF 24

12/30/2013 12:07:03 PM CAHSR-r1.tbl CHSR_PDF_half_black.plt c:\pwworking\hmm\external\bar50597\dms70925\FB-CT-2501-A1.dgn BAR50597

NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

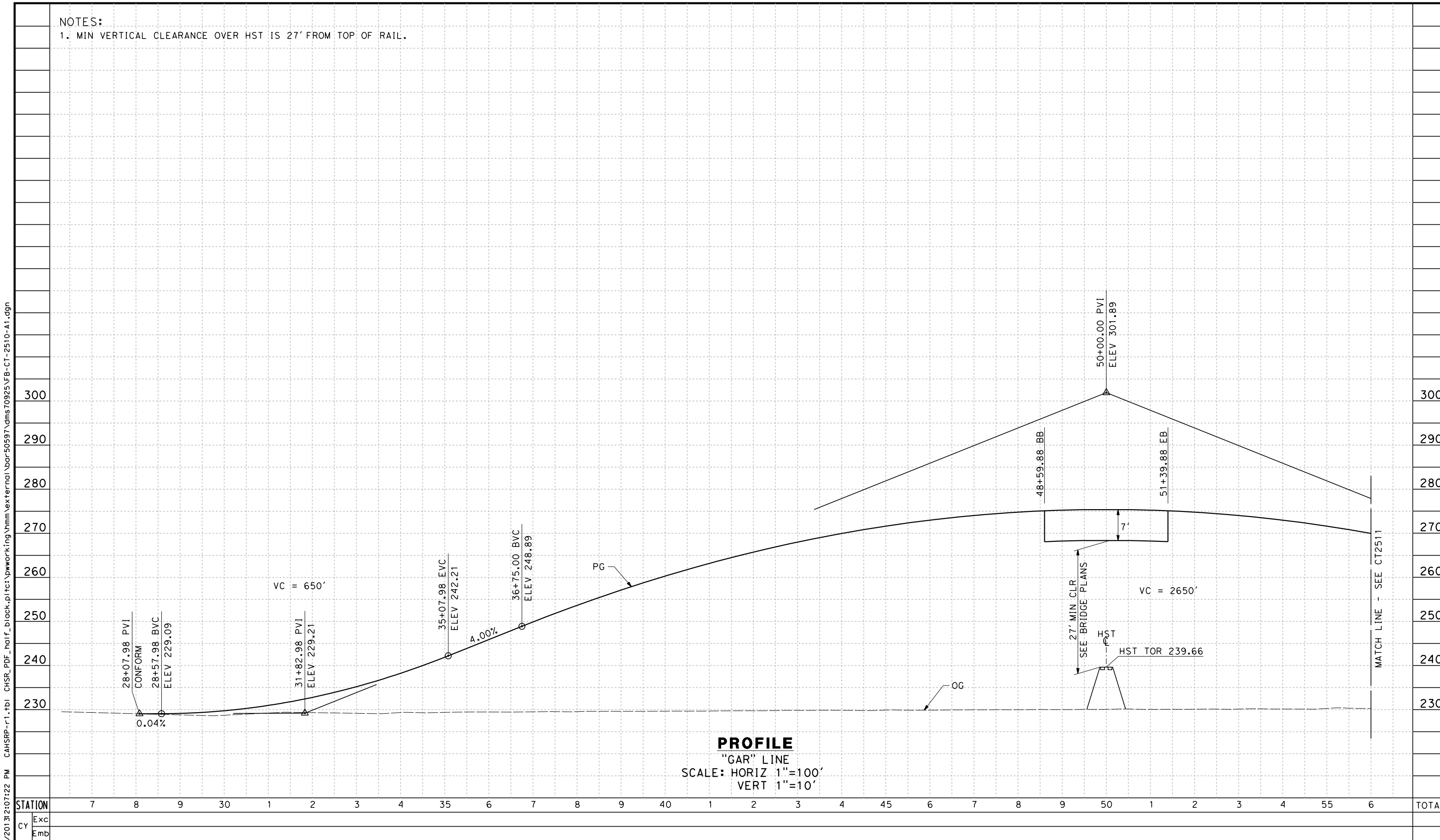


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION PROFILE
COUNTY RD J22

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2501
SCALE
AS SHOWN
SHEET NO.
12 OF 24

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NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

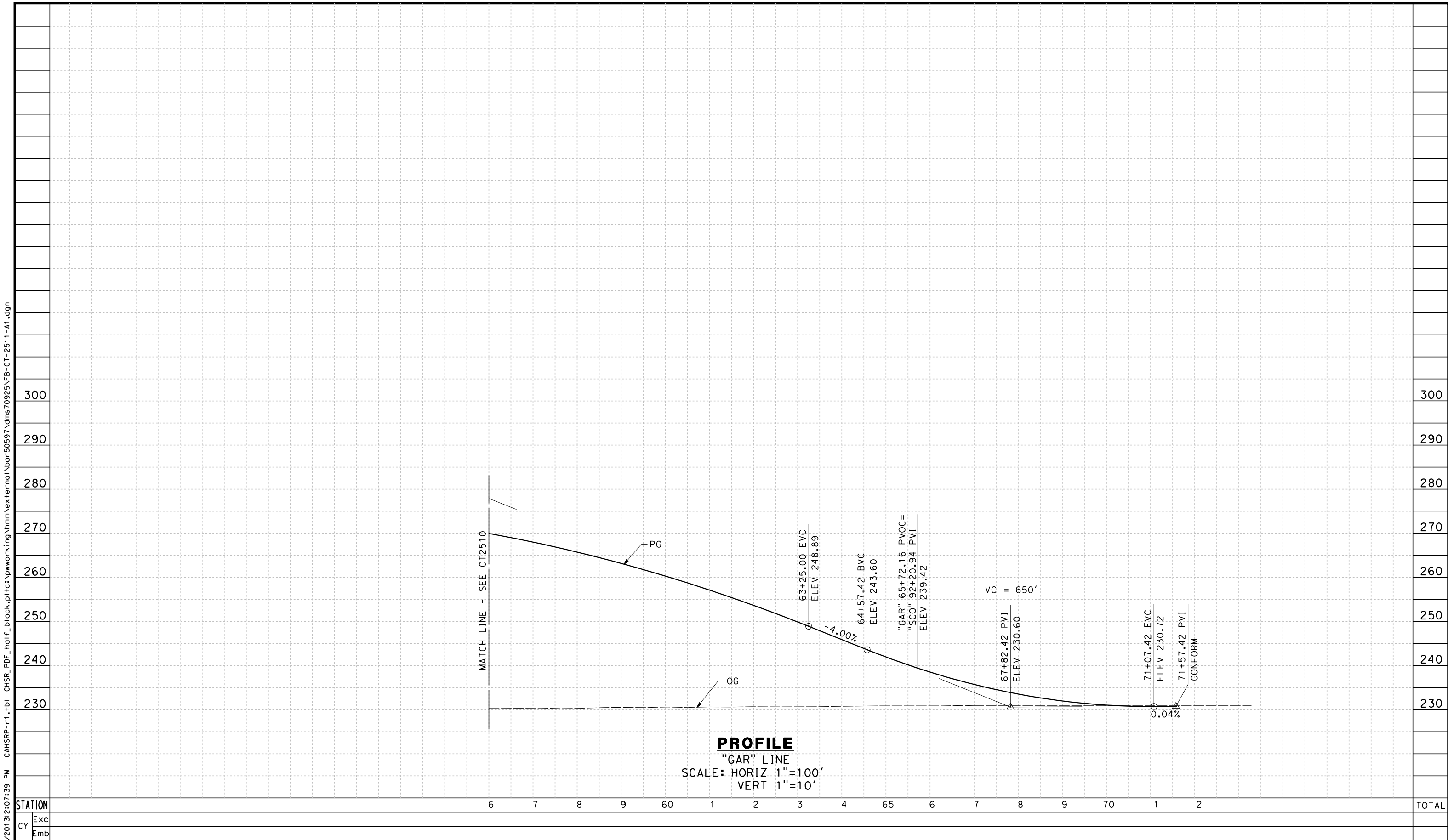
RECORD SET 15%
DESIGN SUBMISSION
NOT FOR
CONSTRUCTION



CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPERATION PROFILE
GARCES HWY

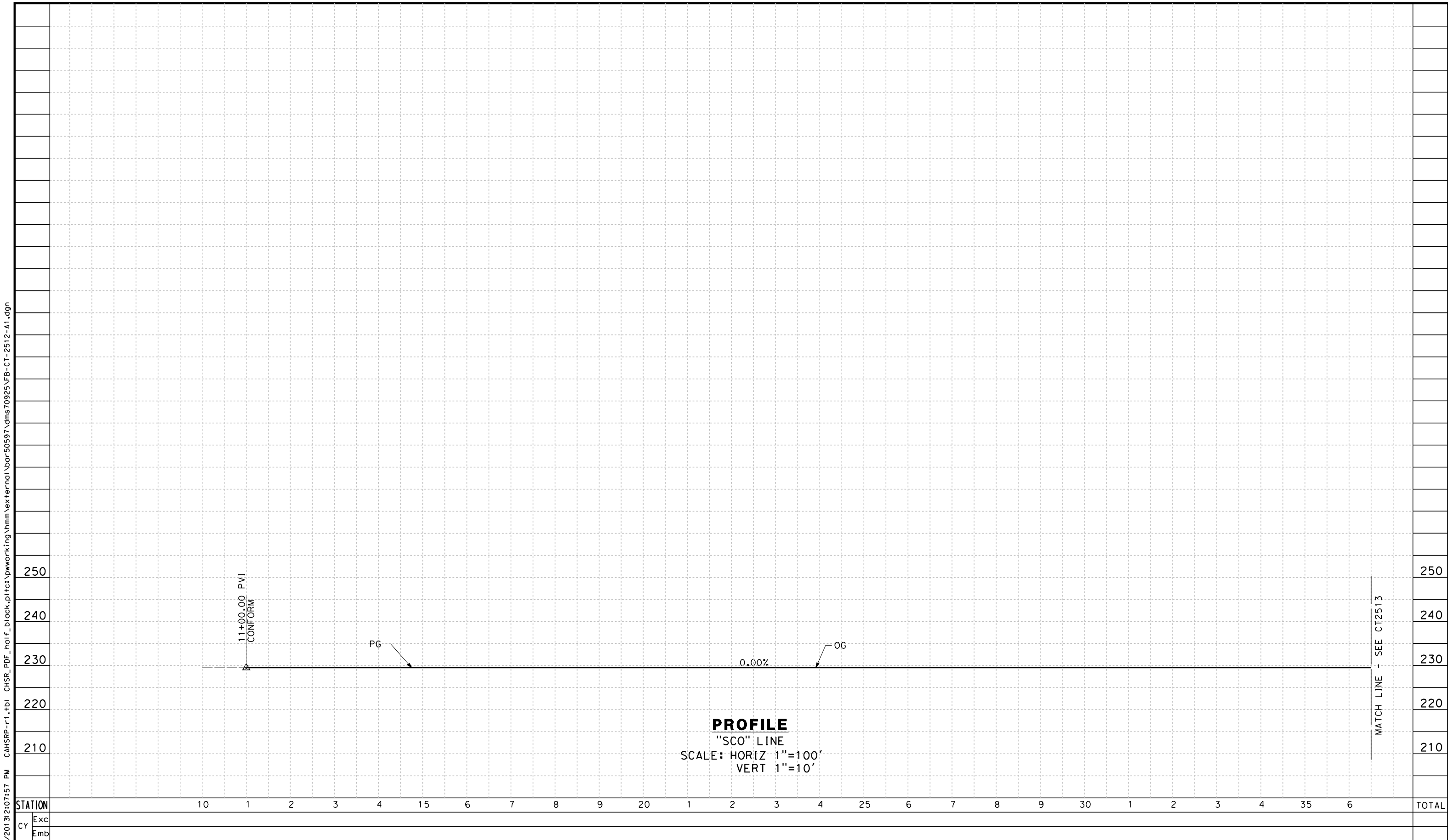
CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2510
SCALE
AS SHOWN
SHEET NO.
13 OF 24



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12/31 <
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12/31						DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION - NOT FOR CONSTRUCTION			CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ALLENSWORTH BYPASS SUBSECTION ALIGNMENT A1 GRADE SEPARATION PROFILE SCOFIELD AVE	CONTRACT NO. HSR 06-0003
						DRAWN BY P. BARBER					DRAWING NO. CT2512
						CHECKED BY T. CLIFFORD					SCALE AS SHOWN
						IN CHARGE R. COFFIN					SHEET NO. 15 OF 24
						DATE 12/31/13					
BAR50597	REV	DATE	BY	CHK	APP	DESCRIPTION					



REV	DA
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DATE 12/31/13

**NOT FOR
CONSTRUCTION**



CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION PROFILE
SCOFIELD AVE

CONTRACT NO.	HSR 06-0003
DRAWING NO.	CT2513
SCALE	AS SHOWN
SHEET NO.	16 OF 24



REV	DATE	BY	CHK	APP	DESCRIPTION
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DATE 12/31/13

**NOT FOR
CONSTRUCTION**



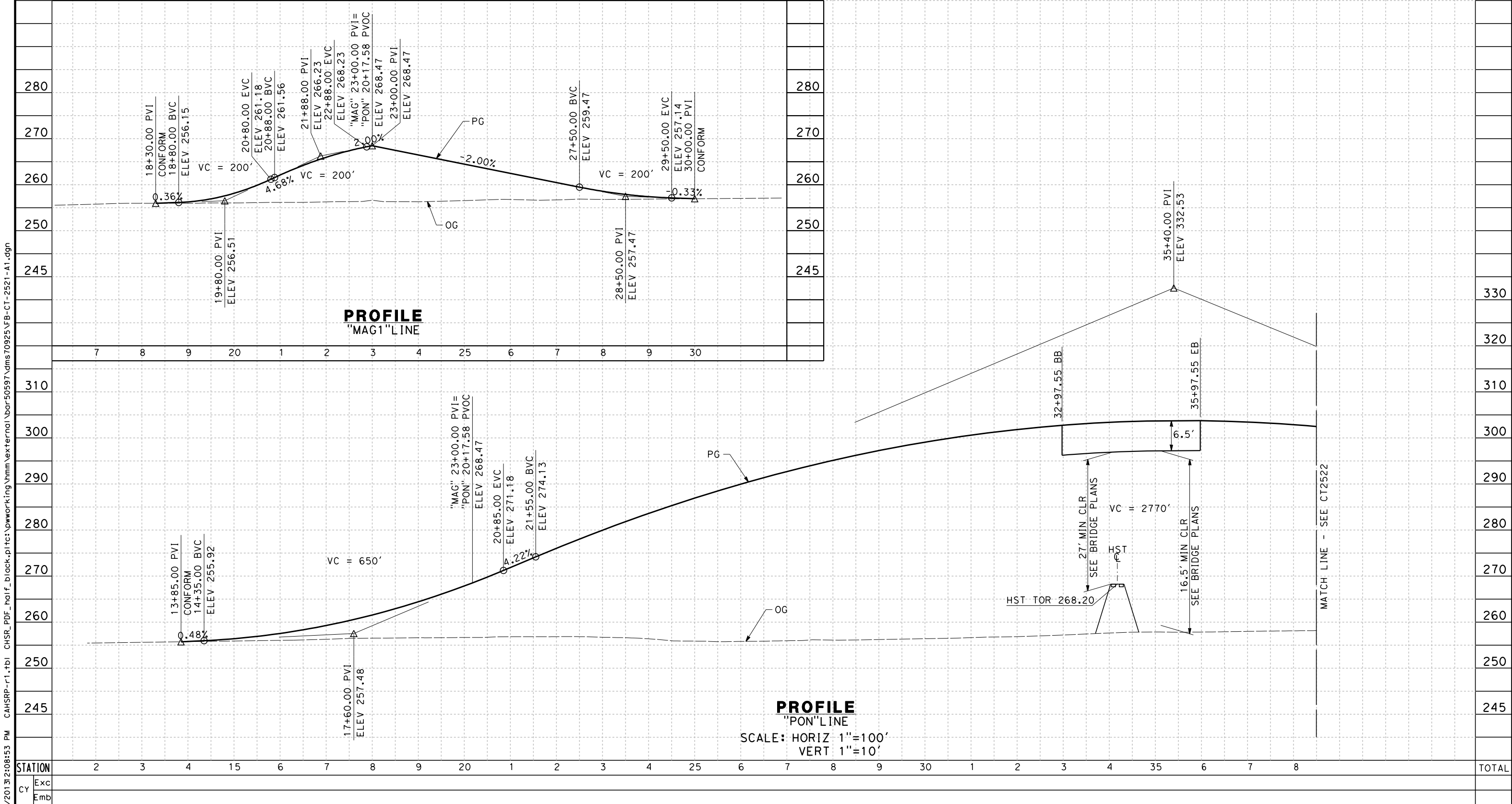
CALIFORNIA
HIGH-SPEED RAIL AUTHORITY

CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD
 ALLENSWORTH BYPASS SUBSECTION
 ALIGNMENT A1
 GRADE SEPARATION PROFILE
 SCOFIELD AVE

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2514
SCALE AS SHOWN
SHEET NO. 17 OF 24

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- NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.
 2. MIN VERTICAL CLEARANCE OVER MAGNOLIA AVENUE IS 16.5' FROM ROADWAY.



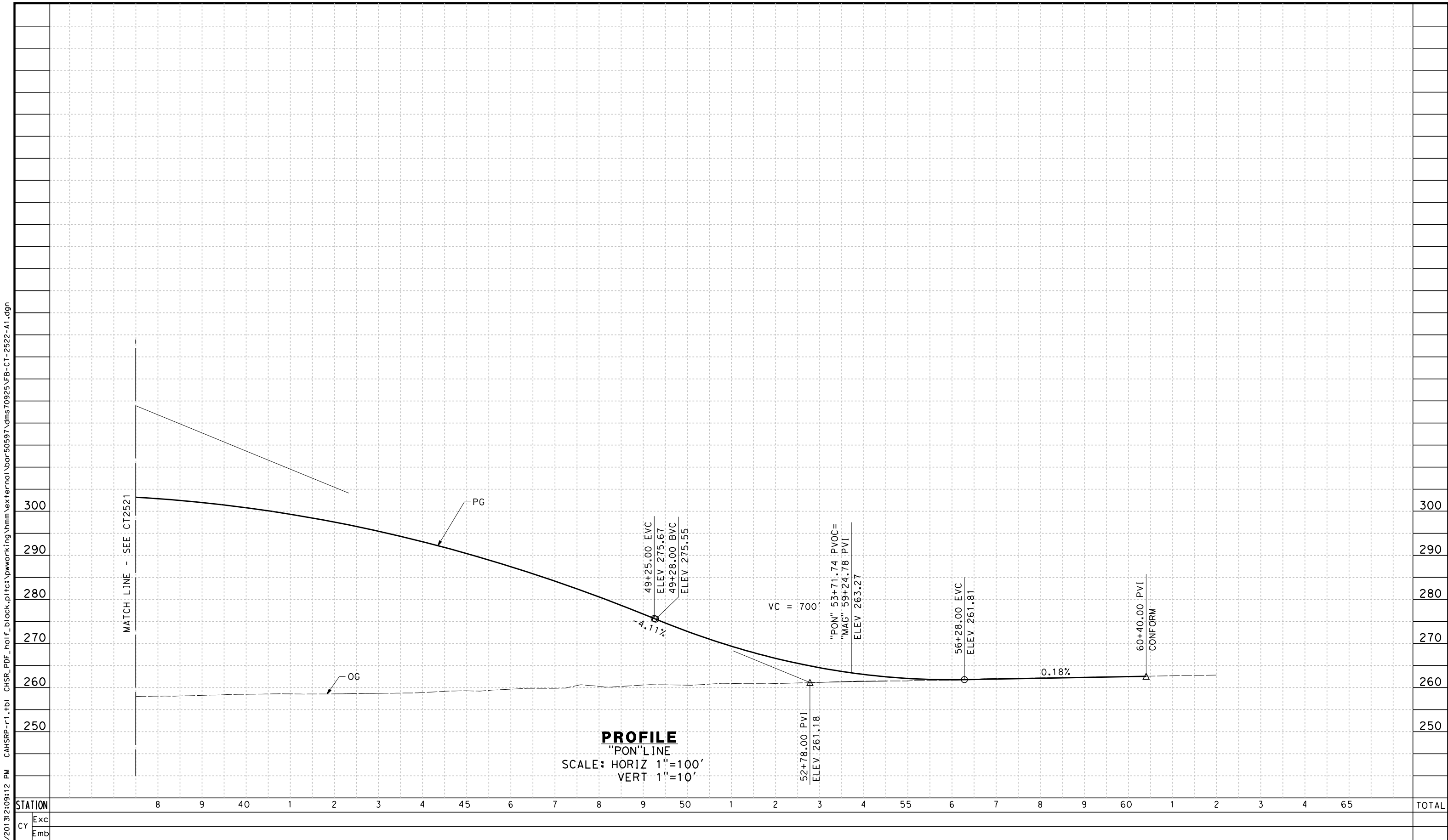
REV	DATE	BY	CHK	APP	DESCRIPTION



DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION
DRAWN BY P. BARBER	
CHECKED BY T. CLIFFORD	
IN CHARGE R. COFFIN	
DATE 12/31/13	

--	--



CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ALLENSWORTH BYPASS SUBSECTION ALIGNMENT A1 GRADE SEPARATION PROFILE POND RD	CONTRACT NO. HSR 06-0003 DRAWING NO. CT2521 SCALE AS SHOWN SHEET NO. 18 OF 24
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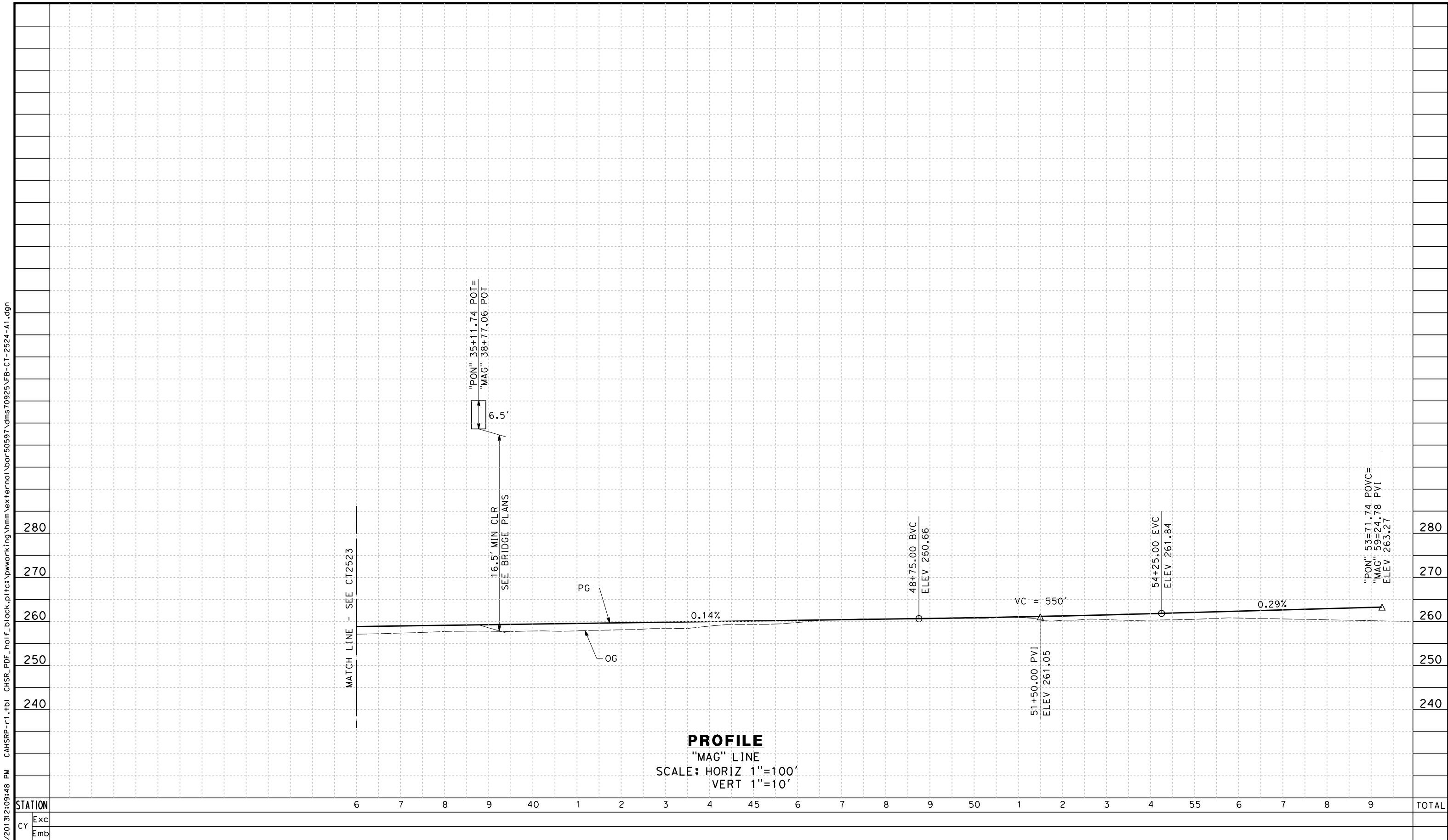
12/3/13						DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ALLENSWORTH BYPASS SUBSECTION ALIGNMENT A1 GRADE SEPARATION PROFILE POND RD				CONTRACT NO. HSR 06-0003
						DRAWN BY P. BARBER							DRAWING NO. CT2522
						CHECKED BY T. CLIFFORD							SCALE AS SHOWN
						IN CHARGE R. COFFIN							SHEET NO. 19 OF 24
						DATE 12/31/13							
BAR50597	REV	DATE	BY	CHK	APP	DESCRIPTION							

1. MIN VERTICAL CLEARANCE OVER MAGNOLIA AVENUE IS 16.5' FROM ROADWAY.

						DESIGNED BY J. JOSIFEK DRAWN BY P. BARBER CHECKED BY T. CLIFFORD IN CHARGE R. COFFIN DATE 12/31/13	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ALLENSWORTH BYPASS SUBSECTION ALIGNMENT A1 GRADE SEPARATION PROFILE MAGNOLIA AVE	CONTRACT NO. HSR 06-0003 DRAWING NO. CT2523 SCALE AS SHOWN SHEET NO. 20 OF 24
REV	DATE	BY	CHK	APP	DESCRIPTION					

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BAR50597



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

**NOT FOR
CONSTRUCTION**

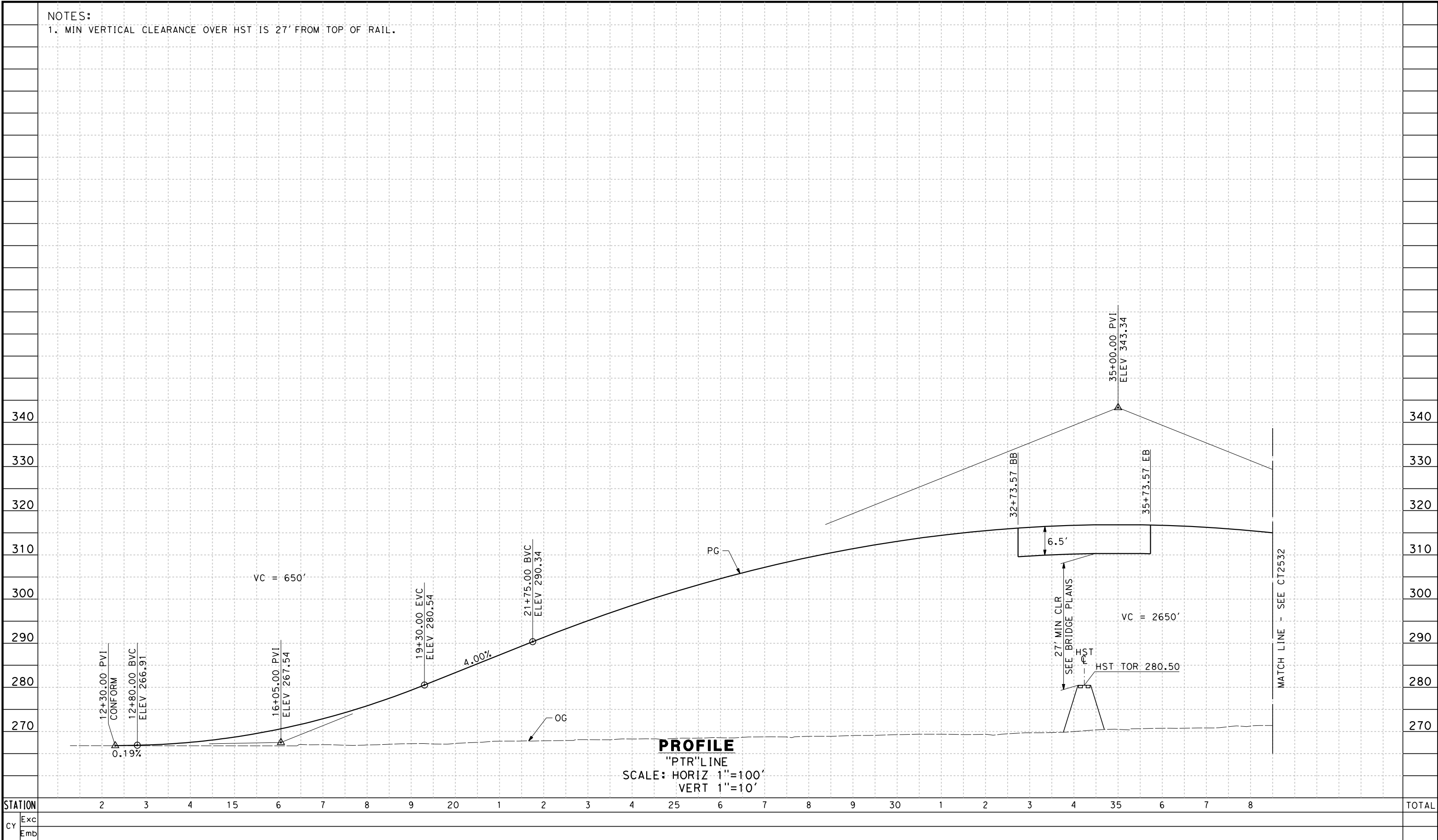


**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION PROFILE
MAGNOLIA AVE

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2524
SCALE
AS SHOWN
SHEET NO.
21 OF 24

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NOTES:
1. MIN VERTICAL CLEARANCE OVER HST IS 27' FROM TOP OF RAIL.



REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY
I. JOSIFEK
DRAWN BY
P. BARBER
CHECKED BY
T. CLIFFORD
IN CHARGE
R. COFFIN
DATE
12/31/13

**RECORD SET 15%
DESIGN SUBMISSION**

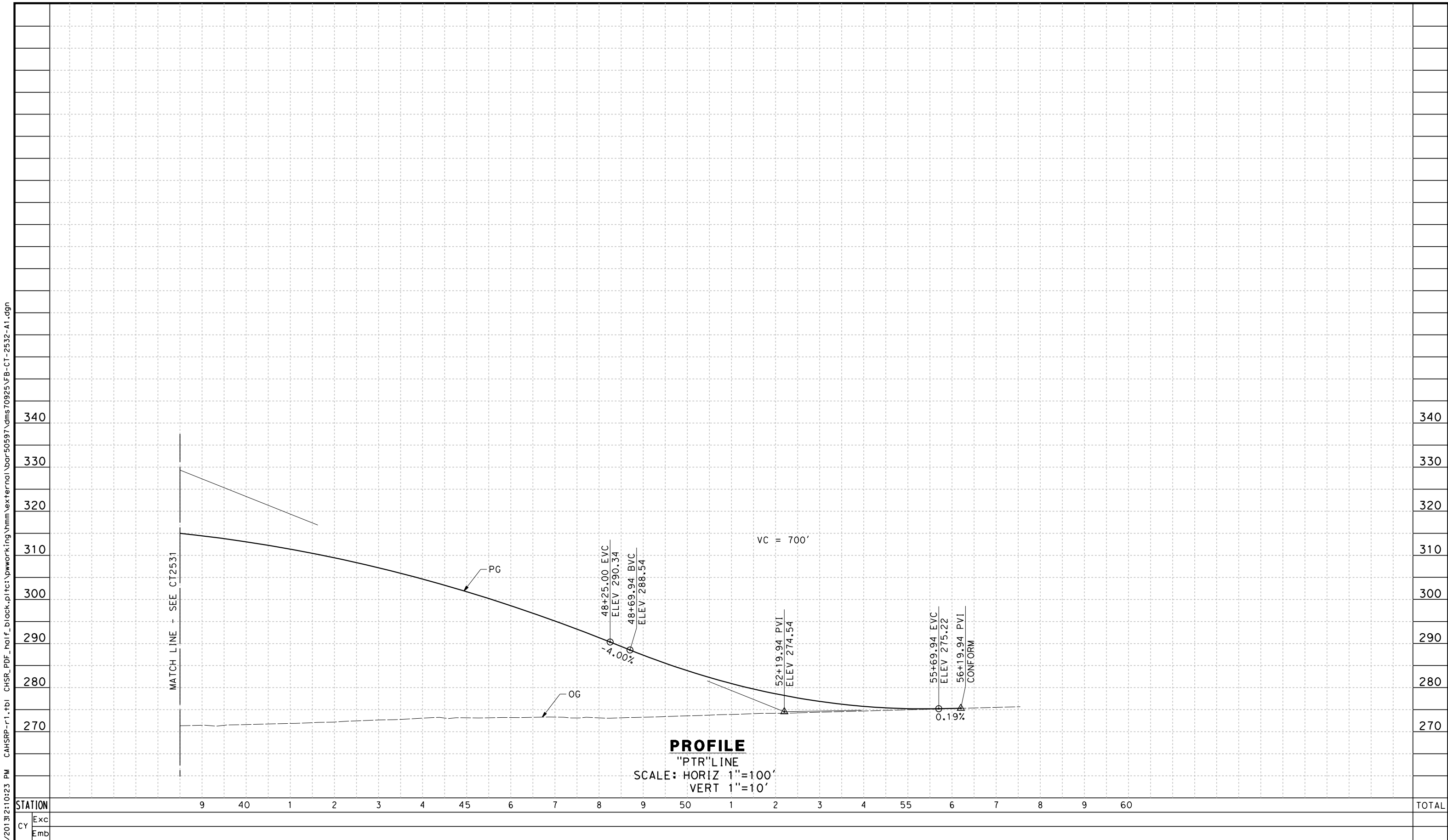
**NOT FOR
CONSTRUCTION**



**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPARATION PROFILE
PETERSON ROAD

CONTRACT NO.
HSR 06-0003
DRAWING NO.
CT2531
SCALE
AS SHOWN
SHEET NO.
22 OF 24

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REV	DATE	BY	CHK	APP	DESCRIPTION

DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION NOT FOR CONSTRUCTION
DRAWN BY P. BARBER	
CHECKED BY T. CLIFFORD	
IN CHARGE R. COFFIN	
DATE 12/31/13	

**CALIFORNIA HIGH-SPEED TRAIN PROJECT
FRESNO TO BAKERSFIELD**
ALLENSWORTH BYPASS SUBSECTION
ALIGNMENT A1
GRADE SEPERATION PROFILE
PETERSON ROAD

CONTRACT NO. HSR 06-0003
DRAWING NO. CT2532
SCALE AS SHOWN
SHEET NO. 23 OF 24

- NOTES:
1. SUPERELEVATION AS SHOWN OR AS DIRECTED BY THE ENGINEER.
 2. PAVEMENT SECTIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. EXACT DIMENSIONS AND MATERIAL OF THE PAVEMENT SECTION TO BE CONFIRMED.

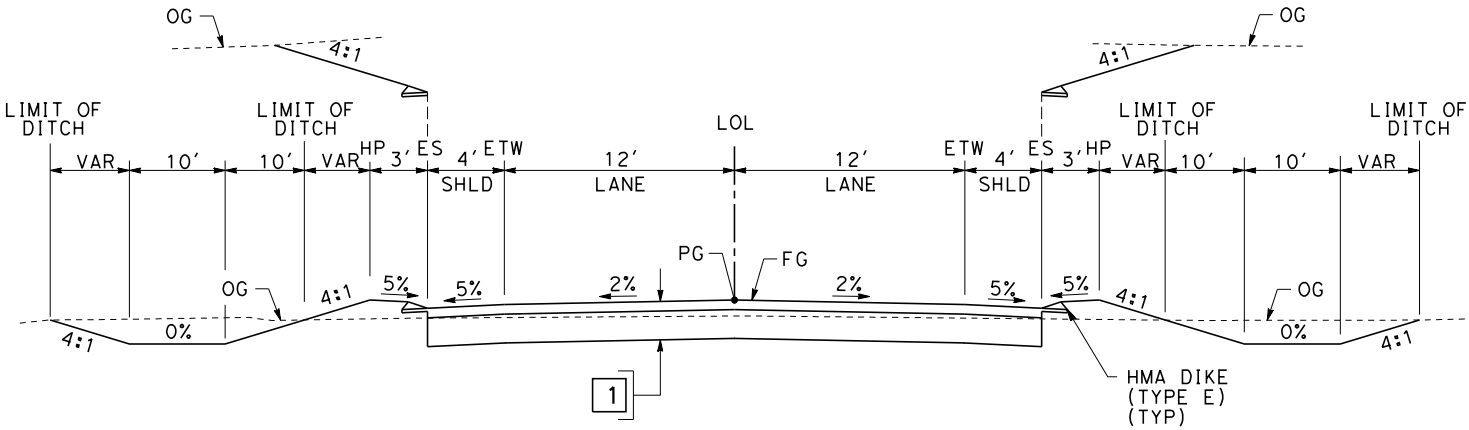
STRUCTURAL SECTIONS

TYPICAL ROADWAY

- 1

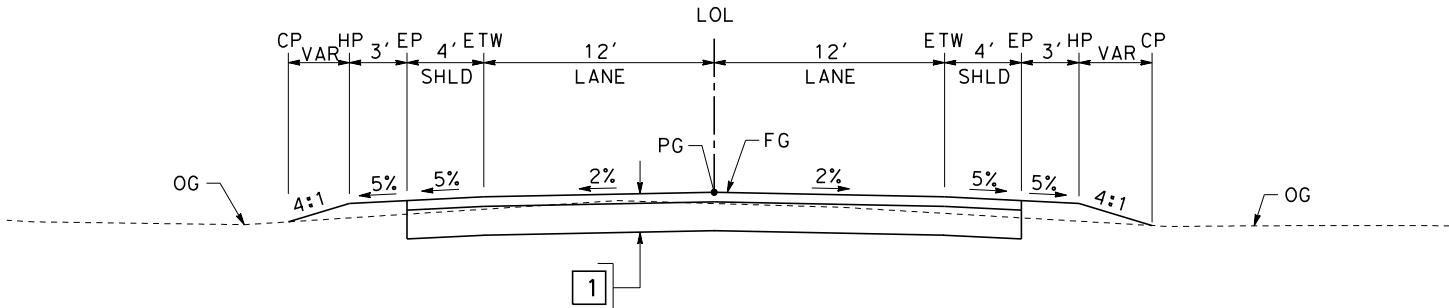
0.30' HMA (TYPE A)

1.40' CL 2 AB



SECTION A

"J22" 33+00.00 TO 47+27.42
"J22" 50+07.42 TO 64+00.00
"GAR" 28+57.00 TO 48+59.88
"GAR" 51+39.88 TO 71+10.00
"PON" 16+50.00 TO 32+97.55
"PON" 35+97.55 TO 56+00.00
"PTR" 12+80.00 TO 32+73.57
"PTR" 35+73.57 TO 55+70.00



SECTION B



"J22" 32+50.00 TO 33+00.00
"J22" 64+00.00 TO 64+50.00
"GAR" 28+07.98 TO 28+57.00
"GAR" 71+10.00 TO 71+57.42
"SCO" 11+00.00 TO 92+20.94
"PON" 13+85.00 TO 16+50.00
"PON" 56+00.00 TO 60+40.00
"MAG" 10+00.00 TO 59+24.78
"MAG1" 18+30.00 TO 30+00.00
"PTR" 12+30.00 TO 12+80.00
"PTR" 55+70.00 TO 56+19.94

TABLE OF DESIGN SPEEDS

STREET NAME	ALIGNMENT DESIGNATION	DESIGN SPEED	CRITERIA / JURISDICTION
COUNTY RD J22	J22	50	AASHTO/TULARE COUNTY
GARCES HWY	GAR	65	KERN COUNTY/KERN COUNTY
SCOFIELD AVE	SCO	45(35*)	KERN COUNTY/KERN COUNTY
POND RD	PON	65	KERN COUNTY/KERN COUNTY
MAGNOLIA AVE	MAG	45(35*)	KERN COUNTY/KERN COUNTY
MAGNOLIA AVE(SOUTH)	MAG1	45	KERN COUNTY/KERN COUNTY
PETERSON RD	PTR	65	KERN COUNTY/KERN COUNTY

* WILL REQUIRE REDUCED DESIGN SPEED AT HORIZONTAL CURVE PRIOR TO STOP CONDITION.

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DESIGNED BY I. JOSIFEK	RECORD SET 15% DESIGN SUBMISSION	 	CALIFORNIA HIGH-SPEED TRAIN PROJECT FRESNO TO BAKERSFIELD ALLENSWORTH BYPASS SUBSECTION ALIGNMENT A1 ROADWAY/GRADE SEPARATION TYPICAL CROSS SECTIONS	CONTRACT NO. HSR 06-0003
DRAWN BY P. BARBER				DRAWING NO. CT3070
CHECKED BY T. CLIFFORD				SCALE AS SHOWN
IN CHARGE R. COFFIN				SHEET NO. 24 OF 24
DATE 12/31/13				

REV	DATE	BY	CHK	APP	DESCRIPTION